

SERVICE MANUAL

AIR-CONDITIONER

SPLIT TYPE, COOLING ONLY

BUILT-IN DUCT TYPE

RAV-164B-PE/164A-PE
RAV-264B-PE/264A-PE
RAV-264B-PE/264A8-PE
RAV-364B-PE/364A8-PE
RAV-464B-PE/464A8-PE



CEILING TYPE

RAV-134C-PE/134A-PE
RAV-164C-PE/164A-PE
RAV-264C-PE/264A-PE
RAV-264C-PE/264A8-PE
RAV-364C-PE/364A8-PE
RAV-464C-PE/464A8-PE



WALL TYPE

RAV-164K-PE/164A-PE
RAV-264K-PE/264A-PE
RAV-264K-PE/264A8-PE



2 WAY CASSETTE TYPE

RAV-134TU-PE/134A-PE
RAV-164TU-PE/164A-PE



4 WAY CASSETTE TYPE

RAV-164U-PE/164A-PE
RAV-264U-PE/264A-PE
RAV-264U-PE/264A8-PE
RAV-364U-PE/364A8-PE
RAV-464U-PE/464A8-PE



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SUMMARY

The units referred to within this Manual conform with the protection requirements of Directives 89/336/EEC Electromagnetic Compatibility and 73/23/EEC Low Voltage.

Operating conditions of units are as follows:

OUTDOOR TEMPERATURE	-2 to 43°C
ROOM TEMPERATURE	18 to 32°C
ROOM HUMIDITY	LESS THAN 80%

Note 1: Cooling Capacity is based on the following temperature conditions:
Indoor air inlet temperature 27°C DB, 19°C WB.
Outdoor air inlet temperature 35°C DB.

Note 2: For details on Control Circuits, refer to Service Manual A90-9925.

Note 3: Metric/Imperial pipe conversion:

Diameter (mm)	6.4	9.5	12.7	15.9	19	22
Nominal Diameter (inch)	1/4	3/8	1/2	5/8	3/4	7/8

1. SPECIFICATIONS

Item		Model	RAV-164B-PE
Cooling capacity		kW	4.5
Power source		Phase	1
		V	220-240
		Hz	50
			COOLING
Power consumption		kW	2.2
Power factor		%	90
Running current		A	10.6
Starting current		A	60
Operating noise (SPL)	Indoor Unit (High, Med, Low)	dB(A)	42/39/36
	Outdoor Unit	dB(A)	50
Refrigerant	Name of Refrigerant		R407C
	Charge Volume	kg	1.2
	Add. Volume (20-30m)	g/m	35
Refrigerant control			Capillary tube
Interconnection pipe	Larger side size	mm	ø12.7
	Coupler style		Flare
	Smaller side size	mm	ø6.4
	Coupler style		Flare
	Standard length	m	7.5
	Maximum actual pipe length (of one way)	m	30
	Maximum height difference		
	If Indoor Unit higher	m	15
	If Outdoor Unit higher	m	30
Condensate drain pipe diameter		mm	ø32.5 (ID)
INDOOR UNIT Model			RAV-164B-PE
Appearance colour			Black (zinc galvanized steel & thermal insulator)
Dimensions	Height	mm	345
	Width	mm	770
	Depth	mm	875
Net weight		kg	39
Heat exchanger type			Finned tube
Indoor fan type			Multi-blade fan
Air volume		m³/h	840
Fan motor output		W	60
External static pressure	Standard	mmAq	4
	Max. motor	mmAq	10
OUTDOOR UNIT Model			RAV-164A-PE
Appearance colour			Bronze white (Munsell 6Y7.5/1)
Dimensions	Height	mm	740
	Width	mm	880
	Depth	mm	310
Net weight		kg	58
Heat exchanger type			Finned tube
Outdoor fan type			Propeller fan
Air flow volume		m³/h	2,700
Fan motor output		W	39
Compressor	Model		PG350X3F-4LS
	Output	kW	1.5
Protective device			fuse, crankcase heater, inner overload relay
Long-life filter kit			RBC-RK162BE-PE
Dimensions	Height	mm	80
	Width	mm	700
	Depth	mm	285
Net weight		kg	8
Air filter			Washable

Specifications are subject to change without notice

1. SPECIFICATIONS

Item		Model	RAV-264B-PE	RAV-264B-PE
Cooling capacity		kW	7.1	7.1
		Phase	1	3
Power source		V	220-240	380-415
		Hz	50	50
			COOLING	COOLING
Power consumption		kW	3.1	2.9
Power factor		%	90	85
Running current		A	15.0	4.9
Starting current		A	80	25
Operating noise (SPL)	Indoor Unit (High, Med, Low)	dB(A)	43/40/37	43/40/37
	Outdoor Unit	dB(A)	53	53
Refrigerant	Name of Refrigerant		R407C	R407C
	Charge Volume	kg	1.9	1.9
	Add. Volume (20-30m)	g/m	35	35
Refrigerant control			Capillary tube	Capillary tube
Interconnection pipe	Larger side size	mm	ø15.9	ø15.9
	Coupler style		Flare	Flare
	Smaller side size	mm	ø9.5	ø9.5
	Coupler style		Flare	Flare
	Standard length	m	7.5	7.5
	Maximum actual pipe length (of one way)	m	30	30
	Maximum height difference			
	If Indoor Unit higher	m	15	15
	If Outdoor Unit higher	m	30	30
Condensate drain pipe diameter		mm	ø32.5 (ID)	ø32.5 (ID)
INDOOR UNIT Model			RAV-264B-PE	RAV-264B-PE
Appearance colour			Black (zinc galvanized steel & thermal insulator)	Black (zinc galvanized steel & thermal insulator)
Dimensions	Height	mm	345	345
	Width	mm	1,070	1,070
	Depth	mm	875	875
Net weight		kg	53	53
Heat exchanger type			Finned tube	Finned tube
Indoor fan type			Multi-blade fan	Multi-blade fan
Air volume		m³/h	1,140	1,140
Fan motor output		W	100	100
External static pressure	Standard	mmAq	4	4
	Max. motor	mmAq	10	10
OUTDOOR UNIT Model			RAV-264A-PE	RAV-264A8-PE
Appearance colour			Bronze white (Munsell 6Y7.5/1)	Bronze white (Munsell 6Y7.5/1)
Dimensions	Height	mm	790	790
	Width	mm	880	880
	Depth	mm	310	310
Net weight		kg	64	64
Heat exchanger type			Finned tube	Finned tube
Outdoor fan type			Propeller fan	Propeller fan
Air flow volume		m³/h	3,000	3,000
Fan motor output		W	63	63
Compressor	Model		PG460X3F-4MS	YG460X3F-MS
	Output	kW	2.2	2.2
Protective device			fuse, crankcase heater, inner overload relay	fuse, crankcase heater, over current relay, reverse phase protector, bi-metal thermostat
Long-life filter kit			RBC-RK262BE-PE	RBC-RK262BE-PE
Dimensions	Height	mm	80	80
	Width	mm	1000	1000
	Depth	mm	285	285
Net weight		kg	10	10
Air filter			Washable	Washable

Specifications are subject to change without notice

1. SPECIFICATIONS

Item		Model	RAV-364B-PE	RAV-464B-PE
Cooling capacity		kW	10.0	12.5
Power source		Phase	3	3
		V	380-415	380-415
		Hz	50	50
			COOLING	COOLING
Power consumption		kW	4.2	5.15
Power factor		%	87	87
Running current		A	7.0	8.5
Starting current		A	42	50
Operating noise (SPL)	Indoor Unit (High, Med, Low)	dB(A)	45/42/39	46/43/40
	Outdoor Unit	dB(A)	55	55
Refrigerant	Name of Refrigerant		R407C	R407C
	Charge Volume	kg	2.7	3.5
	Add. Volume (20-50m)	g/m	35	50
Refrigerant control			Capillary tube	Capillary tube
Interconnection pipe	Larger side size*	mm	ø19 (ø22)	ø19 (ø22)
	Coupler style		Flare	Flare
	Smaller side size	mm	ø9.5	ø9.5
	Coupler style		Flare	Flare
	Standard length	m	7.5	7.5
	Maximum actual pipe length (of one way)	m	50	50
	Maximum height difference			
	If Indoor Unit higher	m	20	20
	If Outdoor Unit higher	m	50	50
Condensate drain pipe diameter		mm	ø32.5 (ID)	ø32.5 (ID)
INDOOR UNIT Model			RAV-364B-PE	RAV-464B-PE
Appearance colour			Black (zinc galvanized steel & thermal insulator)	Black (zinc galvanized steel & thermal insulator)
Dimensions	Height	mm	345	345
	Width	mm	1,420	1,420
	Depth	mm	875	875
Net weight		kg	58	62
Heat exchanger type			Finned tube	Finned tube
Indoor fan type			Multi-blade fan	Multi-blade fan
Air volume		m³/h	1,820	2,100
Fan motor output		W	120	140
External static pressure	Standard	mmAq	4	4
	Max. motor	mmAq	10	10
OUTDOOR UNIT Model			RAV-364A8-PE	RAV-464A8-PE
Appearance colour			Bronze white (Munsell 6Y7.5/1)	Bronze white (Munsell 6Y7.5/1)
Dimensions	Height	mm	1,240	1,240
	Width	mm	930	930
	Depth	mm	385	385
Net weight		kg	102	114
Heat exchanger type			Finned tube	Finned tube
Outdoor fan type			Propeller fan	Propeller fan
Air flow volume		m³/h	6,000	6,000
Fan motor output		W	39 + 63	39 + 63
Compressor	Model		ZR49KCE-TFD-230	ZR61KCE-TFD-230
	Output	kW	3.0	3.75
Protective device			fuse, reverse phase protector, crankcase heater, inner overload relay, bi-metal thermostat	
Long-life filter kit			RBC-RK462BE-PE	RBC-RK462BE-PE
Dimensions	Height	mm	80	80
	Width	mm	1,350	1,350
	Depth	mm	285	285
Net weight		kg	12	12
Air filter			Washable	Washable

* (ø22) should be used when length of pipe exceeds 30m
Specifications are subject to change without notice

1. SPECIFICATIONS

Item		Model	RAV-134C-PE	RAV-164C-PE
Cooling capacity		kW	3.6	4.5
Power source		Phase	1	1
		V	220-240	220-240
		Hz	50	50
			COOLING	COOLING
Power consumption		kW	2.0	2.2
Power factor		%	88	90
Running current		A	9.9	10.6
Starting current		A	60	60
Operating noise (SPL)	Indoor Unit (High, Med, Low)	dB(A)	40/37/33	43/39/36
	Outdoor Unit	dB(A)	50	50
Refrigerant	Name of Refrigerant		R407C	R407C
	Charge Volume	kg	1.05	1.2
	Add. Volume (20-30m)	g/m	35	35
Refrigerant control			Capillary tube	Capillary tube
Interconnection pipe	Larger side size	mm	ø12.7	ø12.7
	Coupler style		Flare	Flare
	Smaller side size	mm	ø6.4	ø6.4
	Coupler style		Flare	Flare
	Standard length	m	7.5	7.5
	Maximum actual pipe length (of one way)	m	30	30
	Maximum height difference			
	If Indoor Unit higher	m	15	15
	If Outdoor Unit higher	m	30	30
Condensate drain pipe diameter		mm	ø20 (OD)	ø20 (OD)
INDOOR UNIT Model			RAV-134C-PE	RAV-164C-PE
Appearance colour			Silky Mist	Silky Mist
Dimensions	Height	mm	188	188
	Width	mm	1,030	1,030
	Depth	mm	640	640
Net weight		kg	24	24
Heat exchanger type			Finned tube	Finned tube
Indoor fan type			Multi-blade fan	Multi-blade fan
Air volume		m³/h	780	850
Fan motor output		W	34	34
Air filter			Washable	Washable
OUTDOOR UNIT Model			RAV-134A-PE	RAV-164A-PE
Appearance colour			Bronze white (Munsell 6Y7.5/1)	Bronze white (Munsell 6Y7.5/1)
Dimensions	Height	mm	740	740
	Width	mm	880	880
	Depth	mm	310	310
Net weight		kg	58	58
Heat exchanger type			Finned tube	Finned tube
Outdoor fan type			Propeller fan	Propeller fan
Air flow volume		m³/h	2,700	2,700
Fan motor output		W	39	39
Compressor	Model		PG330X3F-4LS	PG350X3F-4LS
	Output	kW	1.5	1.5
Protective device			fuse, crankcase heater, inner overload relay	

Specifications are subject to change without notice

1. SPECIFICATIONS

Item		Model	RAV-264C-PE	RAV-264C-PE
Cooling capacity		kW	7.1	7.1
		Phase	1	3
Power source		V	220-240	380-415
		Hz	50	50
			COOLING	COOLING
Power consumption		kW	3.1	2.9
Power factor		%	90	85
Running current		A	15.0	4.9
Starting current		A	80	25
Operating noise (SPL)	Indoor Unit (High, Med, Low)	dB(A)	45/41/37	45/41/37
	Outdoor Unit	dB(A)	53	53
Refrigerant	Name of Refrigerant		R407C	R407C
	Charge Volume	kg	1.9	1.9
	Add. Volume (20-30m)	g/m	35	35
Refrigerant control			Capillary tube	Capillary tube
Interconnection pipe	Larger side size	mm	ø15.9	ø15.9
	Coupler style		Flare	Flare
	Smaller side size	mm	ø9.5	ø9.5
	Coupler style		Flare	Flare
	Standard length	m	7.5	7.5
	Maximum actual pipe length (of one way)	m	30	30
	Maximum height difference			
	If Indoor Unit higher	m	15	15
Condensate drain pipe diameter	If Outdoor Unit higher	m	30	30
		mm	ø20 (OD)	ø20 (OD)
INDOOR UNIT Model			RAV-264C-PE	RAV-264C-PE
Appearance colour			Silky Mist	Silky Mist
Dimensions	Height	mm	188	188
	Width	mm	1,230	1,230
	Depth	mm	640	640
Net weight		kg	28	28
Heat exchanger type			Finned tube	Finned tube
Indoor fan type			Multi-blade fan	Multi-blade fan
Air volume		m³/h	1,200	1,200
Fan motor output		W	34	34
Air filter			Washable	Washable
OUTDOOR UNIT Model			RAV-264A-PE	RAV-264A8-PE
Appearance colour			Bronze white (Munsell 6Y7.5/1)	Bronze white (Munsell 6Y7.5/1)
Dimensions	Height	mm	790	790
	Width	mm	880	880
	Depth	mm	310	310
Net weight		kg	64	64
Heat exchanger type			Finned tube	Finned tube
Outdoor fan type			Propeller fan	Propeller fan
Air flow volume		m³/h	3,000	3,000
Fan motor output		W	63	63
Compressor	Model		PG460X3F-4MS	YG460X3F-MS
	Output	kW	2.2	2.2
Protective device			fuse, crankcase heater, inner overload relay	fuse, crankcase heater, overcurrent relay, reverse phase protector, bi-metal thermostat

Specifications are subject to change without notice

1. SPECIFICATIONS

Item		Model	RAV-364C-PE	RAV-464C-PE
Cooling capacity		kW	10.0	12.5
Power source		Phase	3	3
		V	380-415	380-415
		Hz	50	50
			COOLING	COOLING
Power consumption		kW	4.2	5.15
Power factor		%	87	87
Running current		A	7.0	8.5
Starting current		A	42	50
Operating noise (SPL)	Indoor Unit (High, Med, Low)	dB(A)	47/43/40	49/45/41
	Outdoor Unit	dB(A)	55	55
Refrigerant	Name of Refrigerant		R407C	R407C
	Charge Volume	kg	2.7	3.5
	Add. Volume (20-50m)	g/m	35	50
Refrigerant control			Capillary tube	Capillary tube
Interconnection pipe	Larger side size*	mm	ø19 (ø22)	ø19 (ø22)
	Coupler style		Flare	Flare
	Smaller side size	mm	ø9.5	ø9.5
	Coupler style		Flare	Flare
	Standard length	m	7.5	7.5
	Maximum actual pipe length (of one way)	m	50	50
	Maximum height difference			
	If Indoor Unit higher	m	20	20
	If Outdoor Unit higher	m	50	50
Condensate drain pipe diameter		mm	ø20 (OD)	ø20 (OD)
INDOOR UNIT Model			RAV-364C-PE	RAV-464C-PE
Appearance colour			Silky Mist	Silky Mist
Dimensions	Height	mm	240	240
	Width	mm	1,430	1,630
	Depth	mm	640	640
Net weight		kg	39	44
Heat exchanger type			Finned tube	Finned tube
Indoor fan type			Multi-blade fan	Multi-blade fan
Air volume		m³/h	1,680	2,100
Fan motor output		W	75	75
Air filter			Washable	Washable
OUTDOOR UNIT Model			RAV-364A8-PE	RAV-464A8-PE
Appearance colour			Bronze white (Munsell 6Y7.5/1)	Bronze white (Munsell 6Y7.5/1)
Dimensions	Height	mm	1,240	1,240
	Width	mm	930	930
	Depth	mm	385	385
Net weight		kg	102	114
Heat exchanger type			Finned tube	Finned tube
Outdoor fan type			Propeller fan	Propeller fan
Air flow volume		m³/h	6,000	6,000
Fan motor output		W	39 + 63	39 + 63
Compressor	Model		ZR49KCE-TFD-230	ZR61KCE-TFD-230
	Output	kW	3.0	3.75
Protective device			fuse, reverse phase protector, crankcase heater, inner overload relay, bi-metal thermostat	

* (ø22) should be used when length of pipe exceeds 30m
Specifications are subject to change without notice

1. SPECIFICATIONS

Item		Model	RAV-164K-PE
Cooling capacity		kW	4.5
Power source		Phase	1
		V	220-240
		Hz	50
			COOLING
Power consumption		kW	2.2
Power factor		%	90
Running current		A	10.6
Starting current		A	60
Operating noise (SPL)	Indoor Unit (High, Med, Low)	dB(A)	43/39/36
	Outdoor Unit	dB(A)	50
Refrigerant	Name of Refrigerant		R407C
	Charge Volume	kg	1.2
	Add. Volume (20-30m)	g/m	35
Refrigerant control			Capillary tube
Interconnection pipe	Larger side size	mm	ø12.7
	Coupler style		Flare
	Smaller side size	mm	ø6.4
	Coupler style		Flare
	Standard length	m	7.5
	Maximum actual pipe length (of one way)	m	30
	Maximum height difference		
	If Indoor Unit higher	m	15
	If Outdoor Unit higher	m	30
Condensate drain pipe diameter		mm	ø20 (OD)
INDOOR UNIT Model			RAV-164K-PE
Appearance colour			Silky Mist
Dimensions	Height	mm	372
	Width	mm	1,150
	Depth	mm	226
Net weight		kg	20
Heat exchanger type			Finned tube
Indoor fan type			Transverse flow fan
Air volume		m³/h	770
Fan motor output		W	27
Air filter			Washable
OUTDOOR UNIT Model			RAV-164A-PE
Appearance colour			Bronze white (Munsell 6Y7.5/1)
Dimensions	Height	mm	740
	Width	mm	880
	Depth	mm	310
Net weight		kg	58
Heat exchanger type			Finned tube
Outdoor fan type			Propeller fan
Air flow volume		m³/h	2,700
Fan motor output		W	39
Compressor	Model		PG350X3F-4LS
	Output	kW	1.5
Protective device			fuse, crankcase heater, inner overload relay

Specifications are subject to change without notice

1. SPECIFICATIONS

Item		Model	RAV-264K-PE	RAV-264K-PE
Cooling capacity		kW	7.1	7.1
		Phase	1	3
Power source		V	220-240	380-415
		Hz	50	50
			COOLING	COOLING
Power consumption		kW	3.1	2.9
Power factor		%	90	85
Running current		A	15.0	4.9
Starting current		A	80	25
Operating noise (SPL)	Indoor Unit (High, Med, Low)	dB(A)	44/40/37	44/40/37
	Outdoor Unit	dB(A)	53	53
Refrigerant	Name of Refrigerant		R407C	R407C
	Charge Volume	kg	1.9	1.9
	Add. Volume (20-30m)	g/m	35	35
Refrigerant control			Capillary tube	Capillary tube
Interconnection pipe	Larger side size	mm	ø15.9	ø15.9
	Coupler style		Flare	Flare
	Smaller side size	mm	ø9.5	ø9.5
	Coupler style		Flare	Flare
	Standard length	m	7.5	7.5
	Maximum actual pipe length (of one way)	m	30	30
	Maximum height difference			
	If Indoor Unit higher	m	15	15
	If Outdoor Unit higher	m	30	30
Condensate drain pipe diameter		mm	ø20 (OD)	ø20 (OD)
INDOOR UNIT Model			RAV-264K-PE	RAV-264K-PE
Appearance colour			Silky Mist	Silky Mist
Dimensions	Height	mm	372	372
	Width	mm	1,478	1,478
	Depth	mm	226	226
Net weight		kg	26	26
Heat exchanger type			Finned tube	Finned tube
Indoor fan type			Transverse flow fan	Transverse flow fan
Air volume		m³/h	1,200	1,200
Fan motor output		W	27	27
Air filter			Washable	Washable
OUTDOOR UNIT Model			RAV-264A-PE	RAV-264A8-PE
Appearance colour			Bronze white (Munsell 6Y7.5/1)	Bronze white (Munsell 6Y7.5/1)
Dimensions	Height	mm	790	790
	Width	mm	880	880
	Depth	mm	310	310
Net weight		kg	64	64
Heat exchanger type			Finned tube	Finned tube
Outdoor fan type			Propeller fan	Propeller fan
Air flow volume		m³/h	3,000	3,000
Fan motor output		W	63	63
Compressor	Model		PG460X3F-4MS	YG460X3F-MS
	Output	kW	2.2	2.2
Protective device			fuse, crankcase heater, inner overload relay	fuse, overcurrent relay, crankcase heater, reverse phase protector, bi-metal thermostat

Specifications are subject to change without notice

1. SPECIFICATIONS

Item		Model	RAV-134TU-PE	RAV-164TU-PE
Cooling capacity		kW	3.6	4.5
Power source		Phase	1	1
		V	220-240	220-240
		Hz	50	50
			COOLING	COOLING
Power consumption		kW	2.0	2.2
Power factor		%	88	90
Running current		A	9.9	10.6
Starting current		A	60	60
Operating noise (SPL)	Indoor Unit (High, Med, Low)	dB(A)	40/36/34	41/37/35
	Outdoor Unit	dB(A)	50	50
Refrigerant	Name of Refrigerant		R407C	R407C
	Charge Volume	kg	1.05	1.2
	Add. Volume (20-30m)	g/m	35	35
Refrigerant control			Capillary tube	Capillary tube
Interconnection pipe	Larger side size	mm	ø12.7	ø12.7
	Coupler style		Flare	Flare
	Smaller side size	mm	ø6.4	ø6.4
	Coupler style		Flare	Flare
	Standard length	m	7.5	7.5
	Maximum actual pipe length (of one way)	m	30	30
	Maximum height difference			
	If Indoor Unit higher	m	15	15
	If Outdoor Unit higher	m	30	30
Condensate drain pipe diameter		mm	ø25.5 (OD)	ø25.5 (OD)
INDOOR UNIT Model			RAV-134TU-PE	RAV-164TU-PE
Appearance colour			Grey (galvanized steel & thermal insulator)	Grey (galvanized steel & thermal insulator)
Dimensions	Height	mm	190	190
	Width	mm	910	910
	Depth	mm	480	480
Net weight		kg	23	23
Heat exchanger type			Finned tube	Finned tube
Indoor fan type			Transverse flow fan	Transverse flow fan
Air volume		m³/h	700	750
Fan motor output		W	7 x 2	7 x 2
OUTDOOR UNIT Model			RAV-134A-PE	RAV-164A-PE
Appearance colour			Bronze white (Munsell 6Y7.5/1)	Bronze white (Munsell 6Y7.5/1)
Dimensions	Height	mm	740	740
	Width	mm	880	880
	Depth	mm	310	310
Net weight		kg	58	58
Heat exchanger type			Finned tube	Finned tube
Outdoor fan type			Propeller fan	Propeller fan
Air flow volume		m³/h	2,700	2,700
Fan motor output		W	39	39
Compressor	Model		PG330X3F-4LS	PG350X3F-4LS
	Output	kW	1.5	1.5
Protective device			fuse, crankcase heater, inner overload relay	
CEILING PANEL model			RBC-U133PG(W)-PE	RBC-U133PG(W)-PE
Appearance colour			Silky white (Munsell 2.9Y8.9/0.8)	Silky white (Munsell 2.9Y8.9/0.8)
Dimensions	Height	mm	25	25
	Width	mm	1,050	1,050
	Depth	mm	550	550
Net weight		kg	4.5	4.5
Air filter			Washable	Washable

Specifications are subject to change without notice

1. SPECIFICATIONS

Item		Model	RAV-164U-PE
Cooling capacity		kW	4.5
		Phase	1
Power source		V	220-240
		Hz	50
			COOLING
Power consumption		kW	2.2
Power factor		%	90
Running current		A	10.6
Starting current		A	60
Operating noise (SPL)	Indoor Unit (High, Med, Low)	dB(A)	38/35/32
	Outdoor Unit	dB(A)	50
Refrigerant	Name of Refrigerant		R407C
	Charge Volume	kg	1.2
	Add. Volume (20-30m)	g/m	35
Refrigerant control			Capillary tube
Interconnection pipe	Larger side size	mm	ø12.7
	Coupler style		Flare
	Smaller side size	mm	ø6.4
	Coupler style		Flare
	Standard length	m	7.5
	Maximum actual pipe length (of one way)	m	30
	Maximum height difference		
	If Indoor Unit higher	m	15
	If Outdoor Unit higher	m	30
Condensate drain pipe diameter		mm	1" BSP (male threaded connection)
INDOOR UNIT Model			RAV-164U-PE
Appearance colour			Black (zinc galvanized steel & thermal insulator)
Dimensions	Height	mm	259
	Width	mm	820
	Depth	mm	820
Net weight		kg	25
Heat exchanger type			Finned tube
Indoor fan type			Centrifugal fan
Air volume		m³/h	1,020
Fan motor output		W	28
OUTDOOR UNIT Model			RAV-164A-PE
Appearance colour			Bronze white (Munsell 6Y7.5/1)
Dimensions	Height	mm	740
	Width	mm	880
	Depth	mm	310
Net weight		kg	58
Heat exchanger type			Finned tube
Outdoor fan type			Propeller fan
Air flow volume		m³/h	2,700
Fan motor output		W	39
Compressor	Model		PG350X3F-4LS
	Output	kW	1.5
Protective device			fuse, crankcase heater, inner overload relay
CEILING PANEL model			RBC-U264PG(W)-E
Appearance colour			White
Dimensions	Height	mm	20
	Width	mm	940
	Depth	mm	940
Net weight		kg	6
Air filter			Washable

Specifications are subject to change without notice

1. SPECIFICATIONS

Item		Model	RAV-264U-PE	RAV-264U-PE
Cooling capacity		kW	7.1	7.1
Power source		Phase	1	3
		V	220-240	380-415
		Hz	50	50
			COOLING	COOLING
Power consumption		kW	3.1	2.9
Power factor		%	90	85
Running current		A	15.0	4.9
Starting current		A	80	25
Operating noise (SPL)	Indoor Unit (High, Med, Low)	dB(A)	43/39/35	43/39/35
	Outdoor Unit	dB(A)	50	50
Refrigerant	Name of Refrigerant		R407C	R407C
	Charge Volume	kg	1.9	1.9
	Add. Volume (20-30m)	g/m	35	35
Refrigerant control			Capillary tube	Capillary tube
Interconnection pipe	Larger side size	mm	ø15.9	ø15.9
	Coupler style		Flare	Flare
	Smaller side size	mm	ø9.5	ø9.5
	Coupler style		Flare	Flare
	Standard length	m	7.5	7.5
	Maximum actual pipe length (of one way)	m	30	30
	Maximum height difference			
	If Indoor Unit higher	m	15	15
	If Outdoor Unit higher	m	30	30
Condensate drain pipe diameter		mm	1" BSP (male threaded connection)	1" BSP (male threaded connection)
INDOOR UNIT Model			RAV-264U-PE	RAV-264U-PE
Appearance colour			Black (zinc galvanized steel & thermal insulator)	Black (zinc galvanized steel & thermal insulator)
Dimensions	Height	mm	259	259
	Width	mm	820	820
	Depth	mm	820	820
Net weight		kg	25	25
Heat exchanger type			Finned tube	Finned tube
Indoor fan type			Centrifugal fan	Centrifugal fan
Air volume		m³/h	1,260	1,260
Fan motor output		W	28	28
OUTDOOR UNIT Model			RAV-264A-PE	RAV-264A8-PE
Appearance colour			Bronze white (Munsell 6Y7.5/1)	Bronze white (Munsell 6Y7.5/1)
Dimensions	Height	mm	790	790
	Width	mm	880	880
	Depth	mm	310	310
Net weight		kg	80	80
Heat exchanger type			Finned tube	Finned tube
Outdoor fan type			Propeller fan	Propeller fan
Air flow volume		m³/h	3,000	3,000
Fan motor output		W	64	64
Compressor	Model		PG460X3F-4MS	YG460X3F-MS
	Output	kW	2.2	2.2
Protective device			fuse, crankcase heater, inner overload relay	fuse, crankcase heater, overcurrent relay, reverse phase protector, bi-metal thermostat
CEILING PANEL model			RBC-U264PG(W)-E	RBC-U264PG(W)-E
Appearance colour			White	White
Dimensions	Height	mm	20	20
	Width	mm	940	940
	Depth	mm	940	940
Net weight		kg	6	6
Air filter			Washable	Washable

Specifications are subject to change without notice

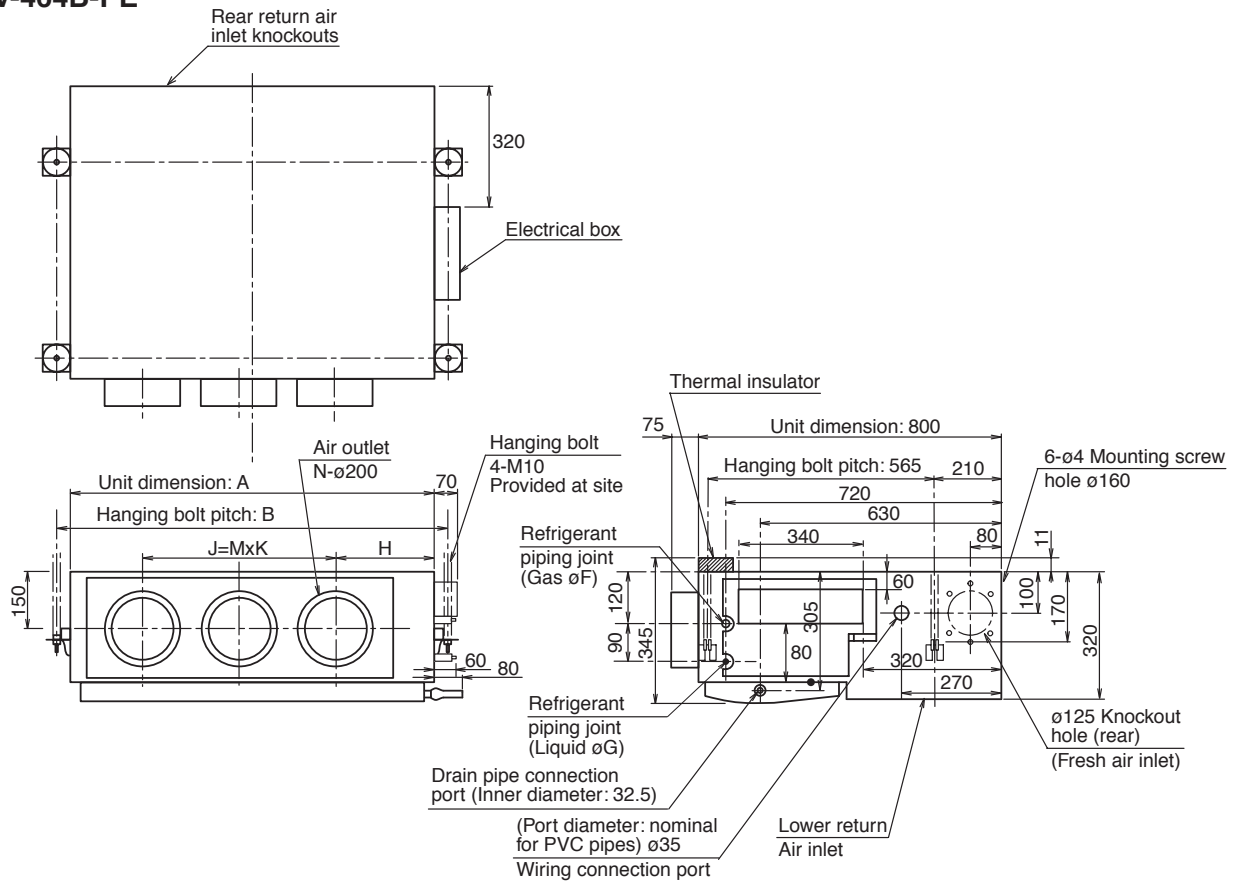
1. SPECIFICATIONS

Item		Model	RAV-364U-PE	RAV-464U-PE
Cooling capacity		kW	10.0	12.5
		Phase	3	3
Power source		V	380-415	380-415
		Hz	50	50
			COOLING	COOLING
Power consumption		kW	4.2	5.15
Power factor		%	87	87
Running current		A	7.0	8.5
Starting current		A	42	50
Operating noise (SPL)	Indoor Unit (High, Med, Low)	dB(A)	42/40/37	45/43/40
	Outdoor Unit	dB(A)	55	55
Refrigerant	Name of Refrigerant		R407C	R407C
	Charge Volume	kg	2.7	3.5
	Add. Volume (20-50m)	g/m	35	50
Refrigerant control			Capillary tube	Capillary tube
Interconnection pipe	Larger side size*	mm	ø19 (ø22)	ø19 (ø22)
	Coupler style		Flare	Flare
	Smaller side size	mm	ø9.5	ø9.5
	Coupler style		Flare	Flare
	Standard length	m	7.5	7.5
	Maximum actual pipe length (of one way)	m	50	50
	Maximum height difference			
	If Indoor Unit higher	m	20	20
	If Outdoor Unit higher	m	50	50
Condensate drain pipe diameter		mm	1" BSP (male threaded connection)	1" BSP (male threaded connection)
INDOOR UNIT Model			RAV-364U-PE	RAV-464U-PE
Appearance colour			Black (zinc galvanized steel & thermal insulator)	Black (zinc galvanized steel & thermal insulator)
Dimensions	Height	mm	309	309
	Width	mm	1,230	1,230
	Depth	mm	820	820
Net weight		kg	43	43
Heat exchanger type			Finned tube	Finned tube
Indoor fan type			Centrifugal fan	Centrifugal fan
Air volume		m³/h	1,750	1,820
Fan motor output		W	36	36
OUTDOOR UNIT Model			RAV-364A8-PE	RAV-464A8-PE
Appearance colour			Bronze white (Munsell 6Y7.5/1)	Bronze white (Munsell 6Y7.5/1)
Dimensions	Height	mm	1,240	1,240
	Width	mm	930	930
	Depth	mm	385	385
Net weight		kg	102	114
Heat exchanger type			Finned tube	Finned tube
Outdoor fan type			Propeller fan	Propeller fan
Air flow volume		m³/h	6,000	6,000
Fan motor output		W	39 + 63	39 + 63
Compressor	Model		ZR49KCE-TFD-230	ZR61KCE-TFD-230
	Output	kW	3.0	3.75
Protective device			fuse, reverse phase protector, crankcase heater, inner overload relay, bi-metal thermostat	
CEILING PANEL model			RBC-U464PG(W)-E	RBC-U464PG(W)-E
Appearance colour			White	White
Dimensions	Height	mm	20	20
	Width	mm	1,350	1,350
	Depth	mm	940	940
Net weight		kg	8	8
Air filter			Washable	Washable

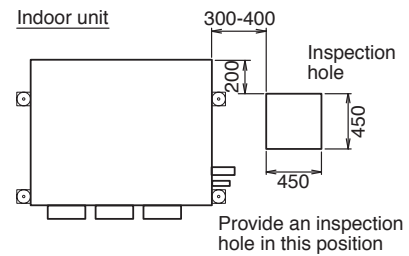
* (ø22) should be used when length of pipe exceeds 30m
Specifications are subject to change without notice

2. CONSTRUCTION VIEWS

2.1 Indoor Unit RAV-164B-PE RAV-264B-PE RAV-364B-PE RAV-464B-PE



Ensure that there is sufficient space around the indoor unit for installation and servicing

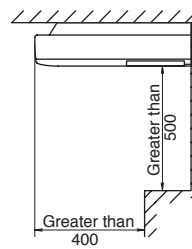
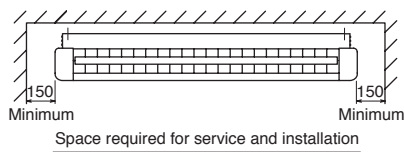
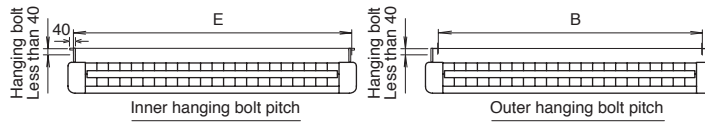
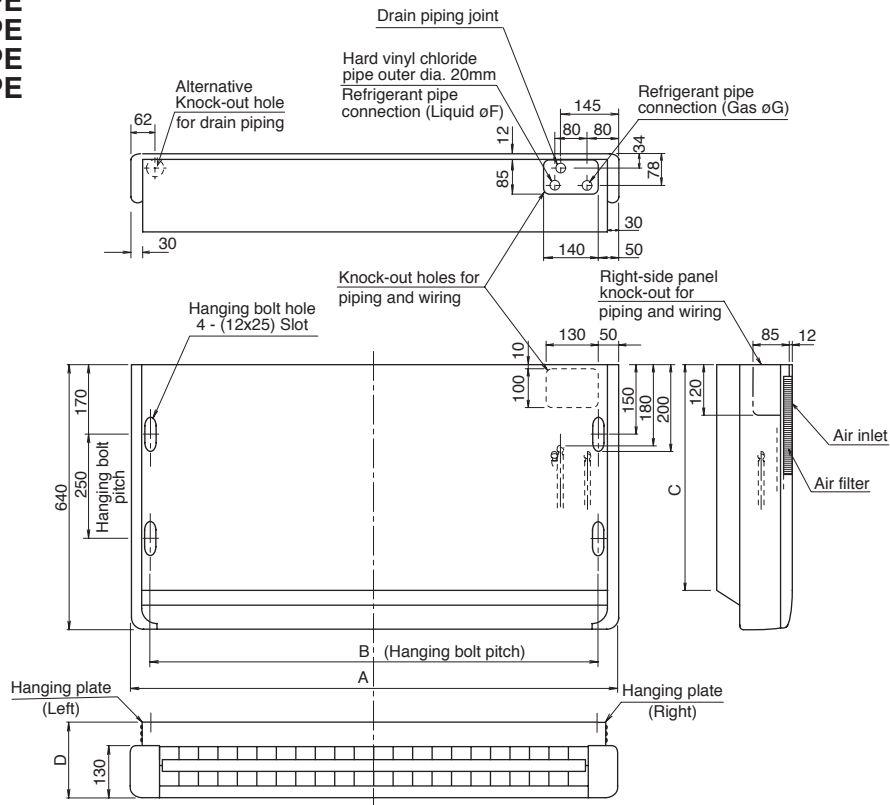


Model	A	B	F	G	H	J	K	M	N
RAV-164B-PE	700	750	12.7	6.4	252	280	280	1	2
RAV-264B-PE	1000	1050	15.9	9.5	252	580	290	2	3
RAV-364B-PE	1350	1400	19.0	9.5	252	930	310	3	4
RAV-464B-PE	1350	1400	19.0	9.5	252	930	310	3	4

(Unit : mm)

2. CONSTRUCTION VIEWS

2.2 Indoor Unit RAV-134C-PE RAV-164C-PE RAV-264C-PE RAV-364C-PE RAV-464C-PE

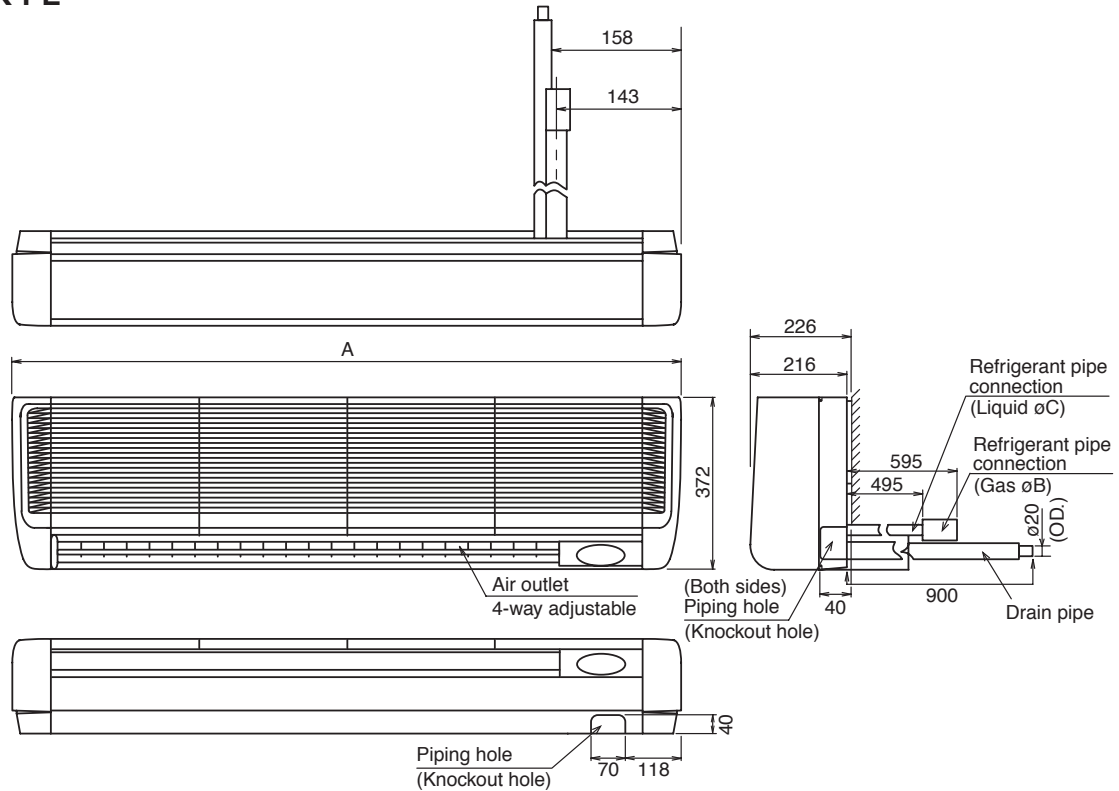


Model	A	B	C	D	E	F	G
RAV-134C-PE	1,030	920	540	188	1,020	6.4	12.7
RAV-164C-PE	1,030	920	540	188	1,020	6.4	12.7
RAV-264C-PE	1,230	1,120	540	188	1,220	9.5	15.9
RAV-364C-PE	1,430	1,320	550	240	1,420	9.5	19.0
RAV-464C-PE	1,630	1,520	550	240	1,620	9.5	19.0

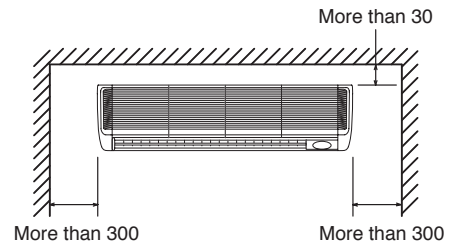
(unit : mm)

2. CONSTRUCTION VIEWS

2.3 Indoor Unit RAV-164K-PE RAV-264K-PE

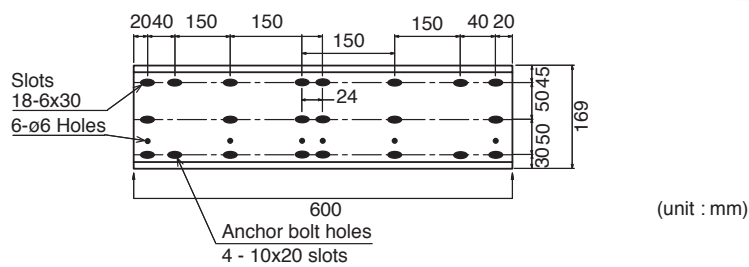


MODEL	A	B	C
RAV-164K-PE	1150	12.7	6.4
RAV-264K-PE	1478	15.9	9.5

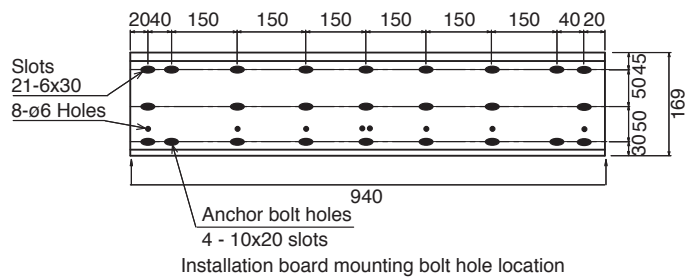


RAV-164K-PE

Space required for service

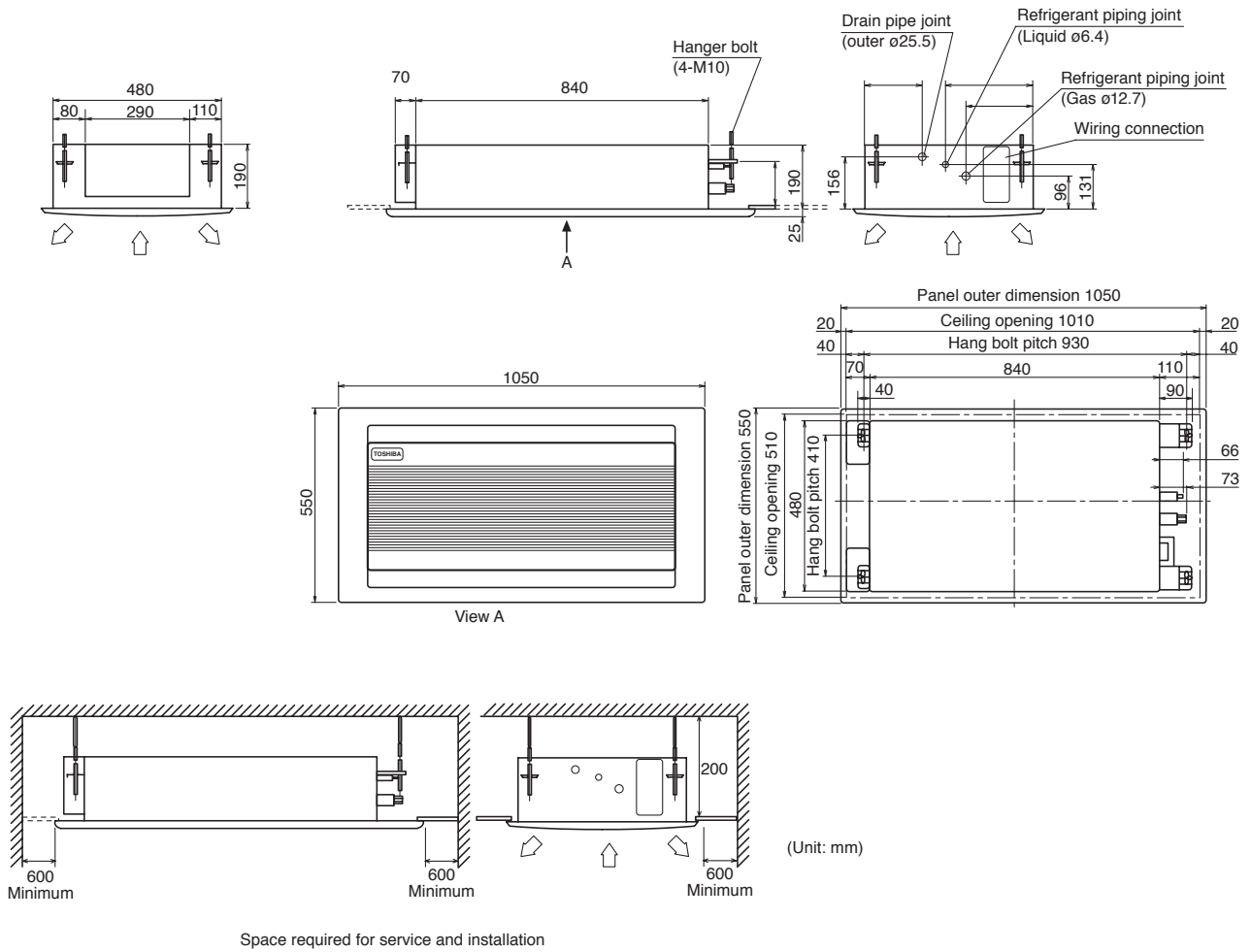


RAV-264K-PE



2. CONSTRUCTION VIEWS

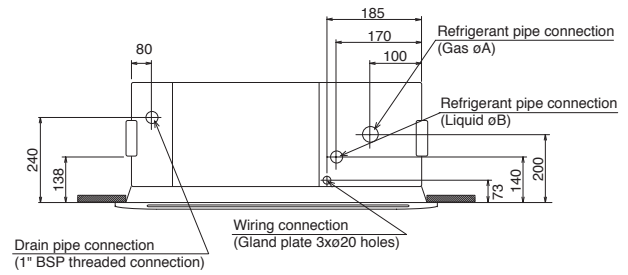
2.4 Indoor Unit RAV-134TU-PE RAV-164TU-PE



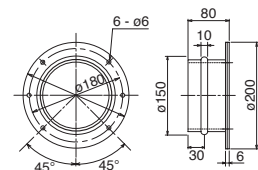
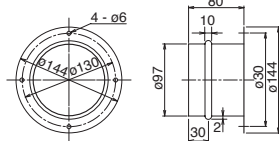
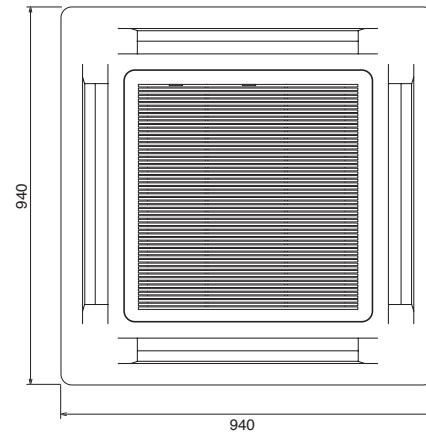
2.5 Indoor Unit

RAV-164U-PE

RAV-264U-PE

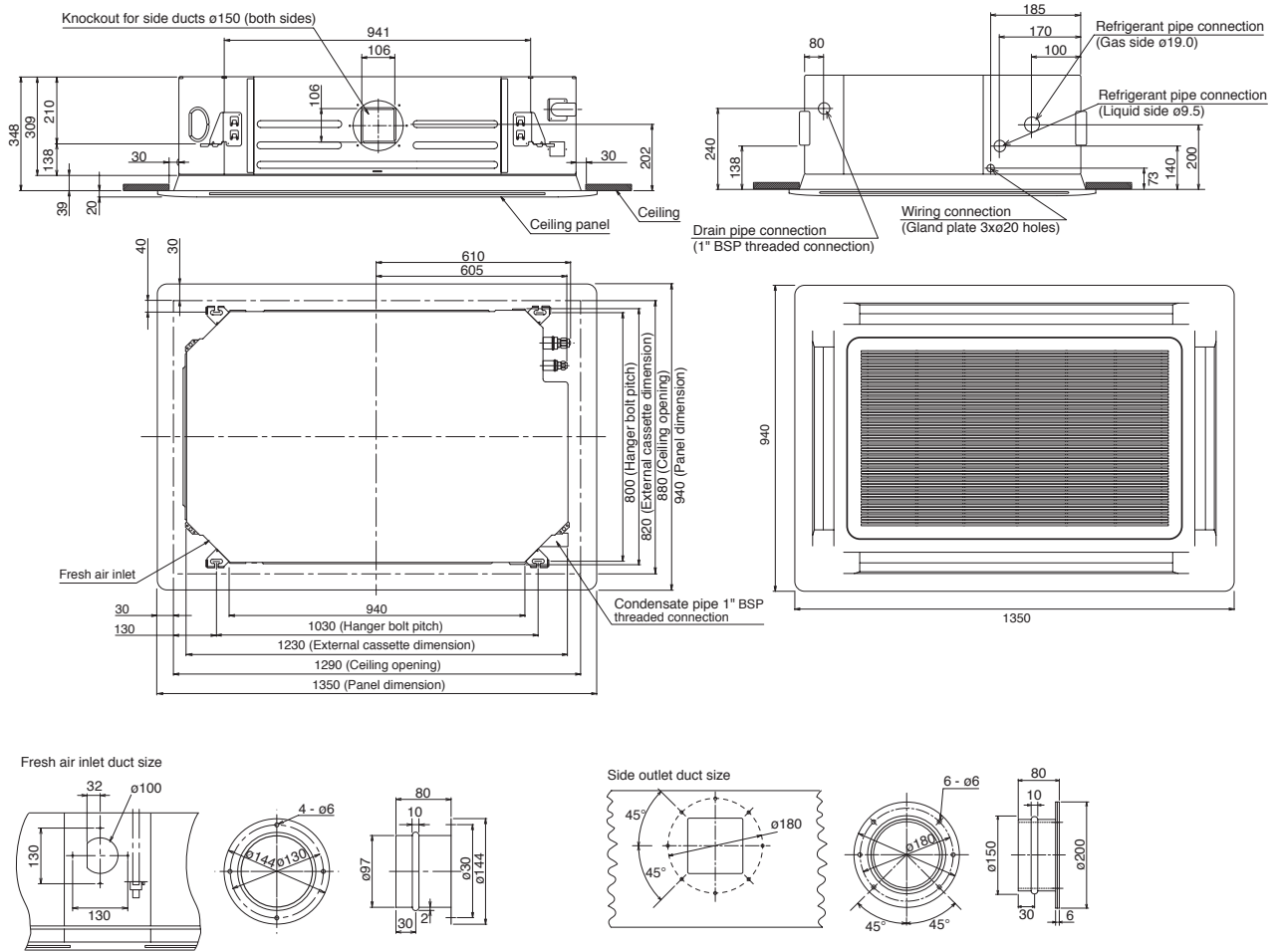


Model (RAV-)	164U	264U
ϕA	12.7	15.9
ϕB	6.4	9.5



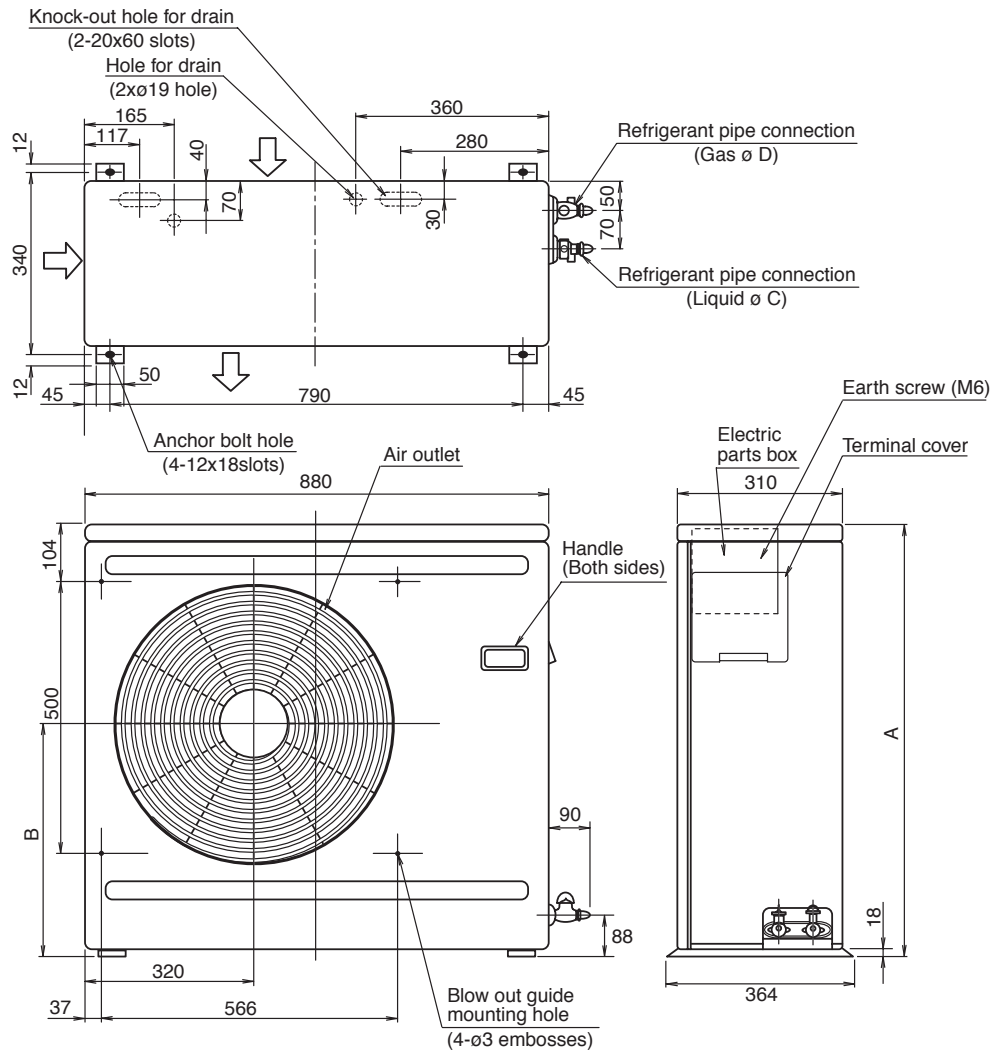
2. CONSTRUCTION VIEWS

2.6 Indoor Unit RAV-364U-PE RAV-464U-PE

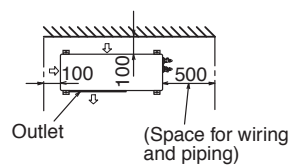


2.7 Outdoor Unit

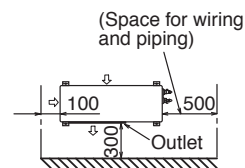
RAV-134A-PE
RAV-164A-PE
RAV-264A-PE
RAV-264A8-PE



Space required for service



When installed with the
inlet facing the wall



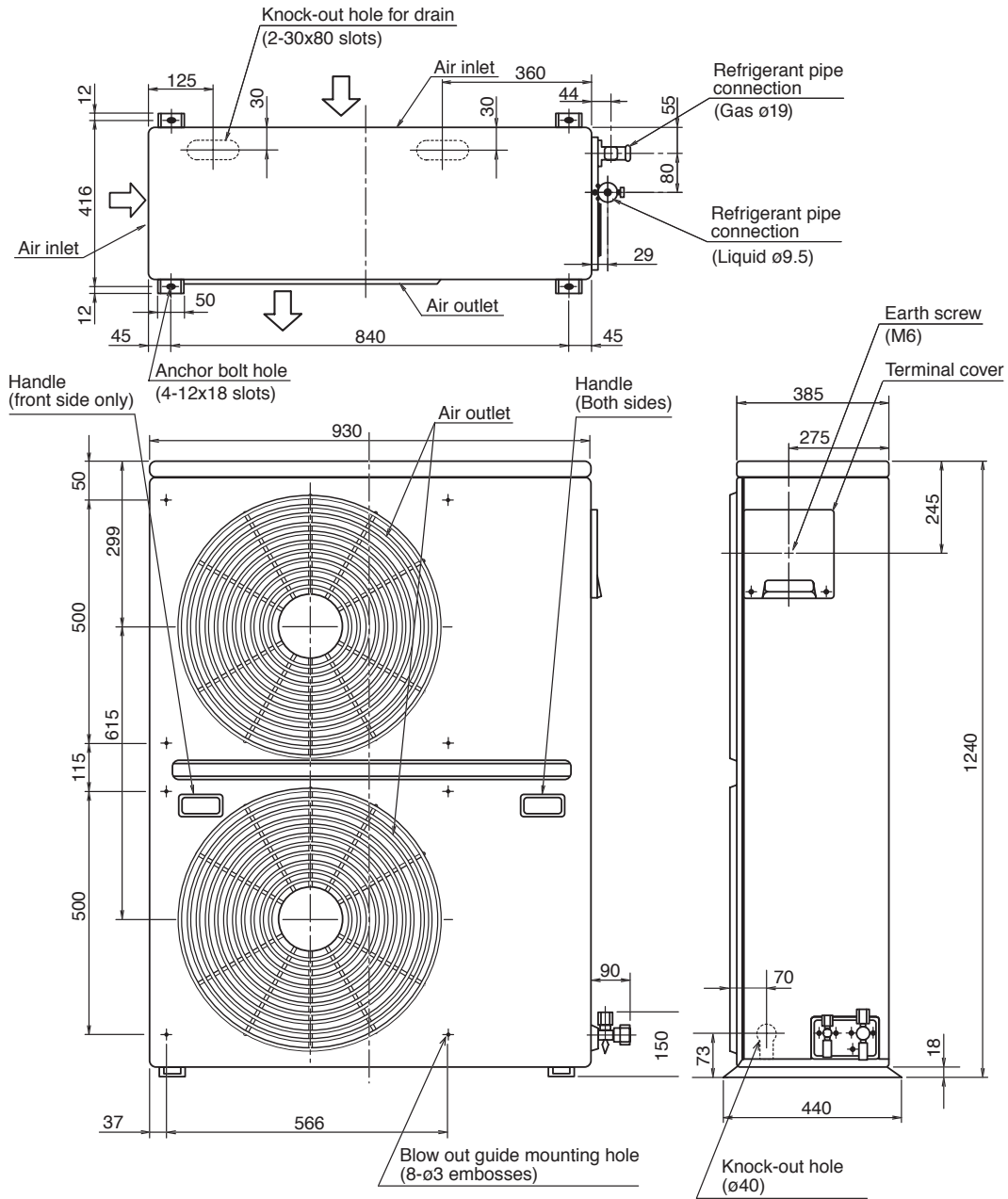
When installed with the
outlet facing the wall

Model	A	B	øC	øD
RAV-134A-PE RAV-164A-PE	740	380	6.4	12.7
RAV-264A-PE RAV-264A8-PE	790	430	9.5	15.9

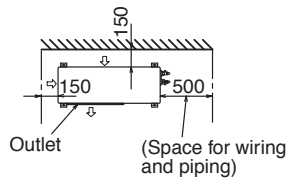
(unit : mm)

2. CONSTRUCTION VIEWS

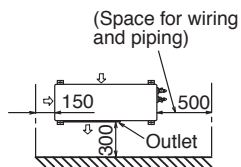
2.8 Outdoor Unit RAV-364A8-PE RAV-464A8-PE



Space required for service



When installed with the inlet facing the wall

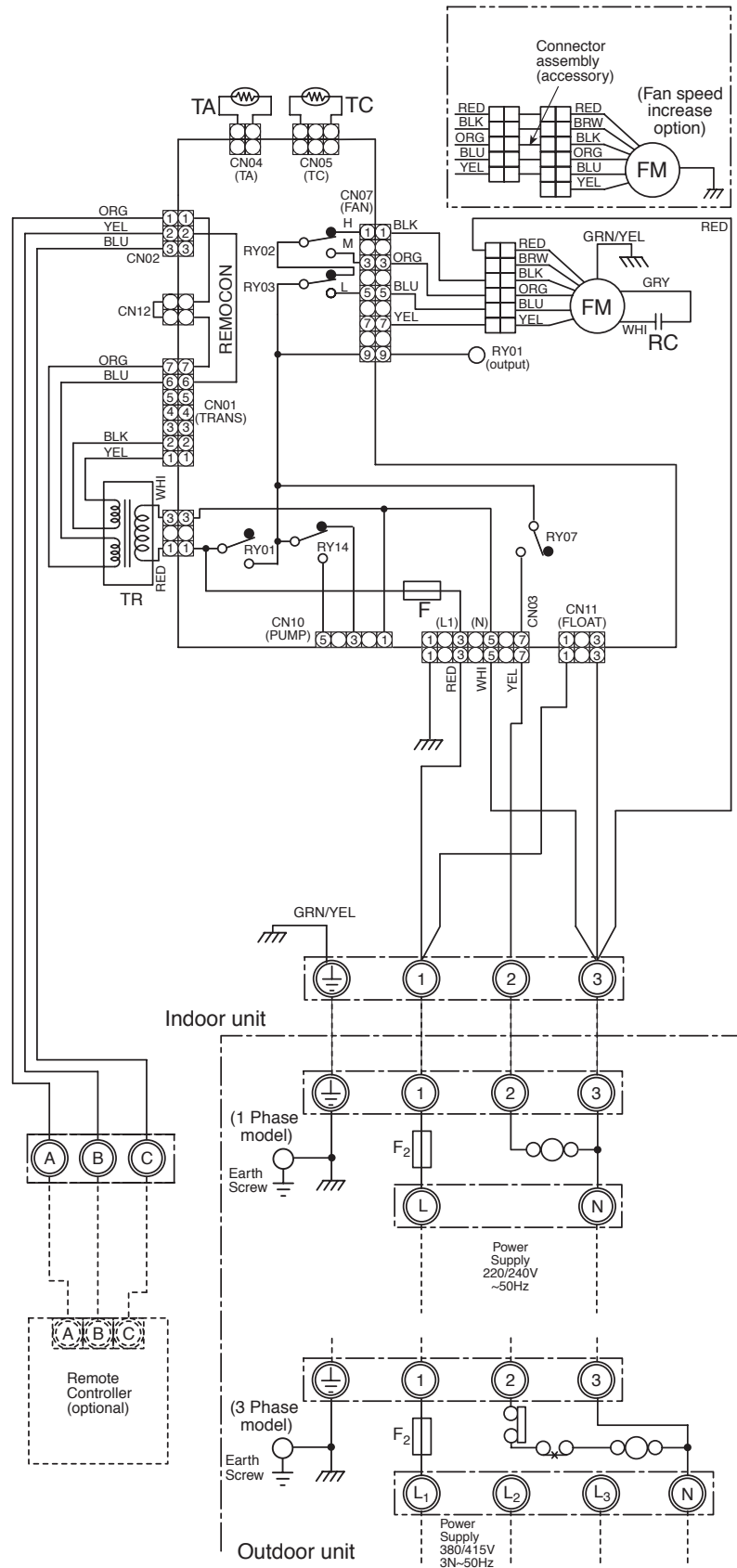


When installed with the outlet facing the wall

(unit : mm)

3. WIRING DIAGRAMS

3.1 RAV-164B-PE RAV-264B-PE RAV-364B-PE RAV-464B-PE



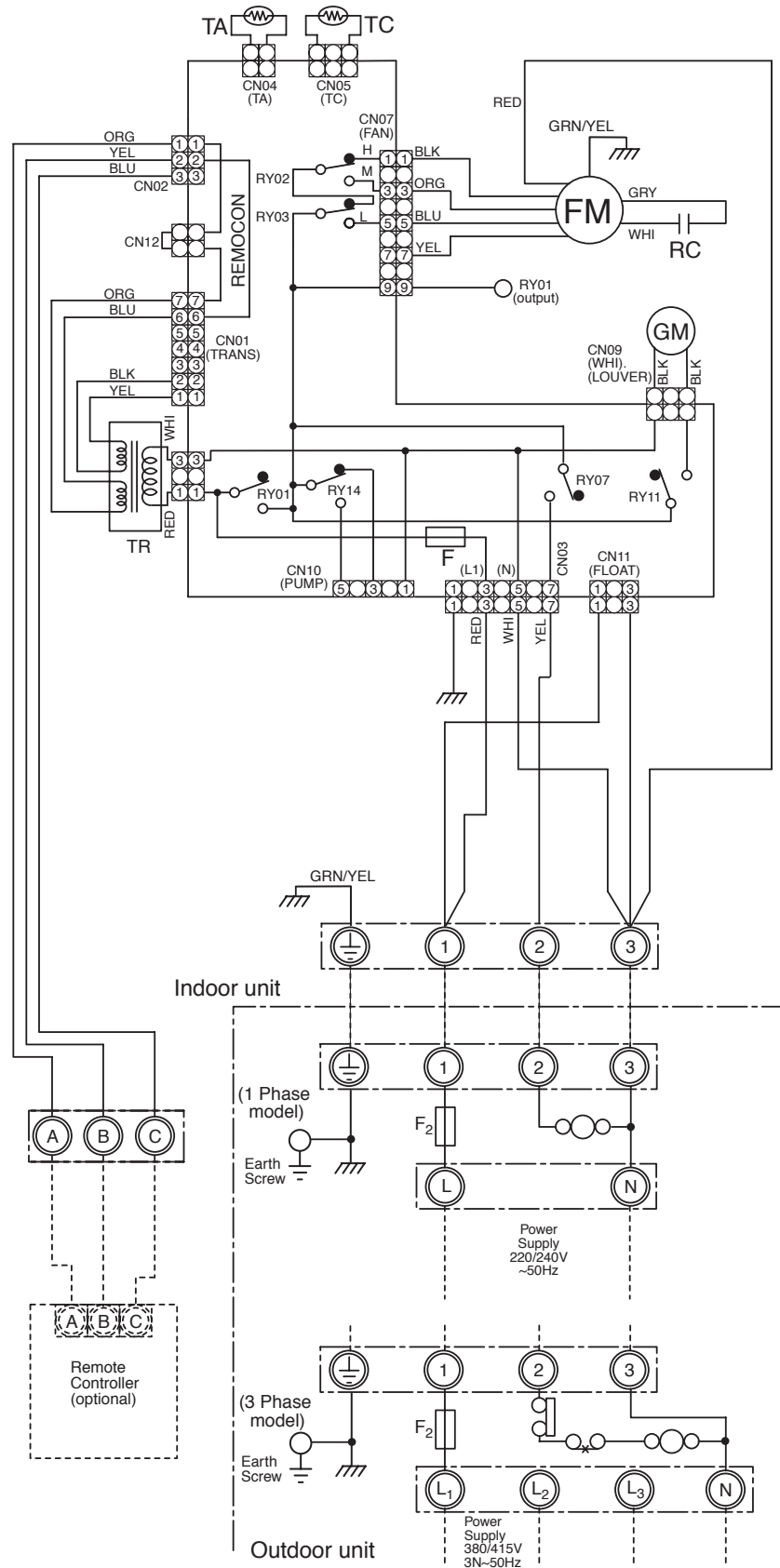
○ shows terminal block and figures show terminal numbers.
Broken lines show wiring at site.

Do not operate the units with the magnetic contactor pushed in.

Symbol	Name	Symbol	Name
FM	Fan Motor	TA	Sensor
RC	Running Capacitor	TC	Sensor
TR	Transformer	RY01-RY14	Relay
F	Fuse (PCB)		

3. WIRING DIAGRAMS

3.2 RAV-134C-PE RAV-164C-PE RAV-264C-PE RAV-364C-PE RAV-464C-PE



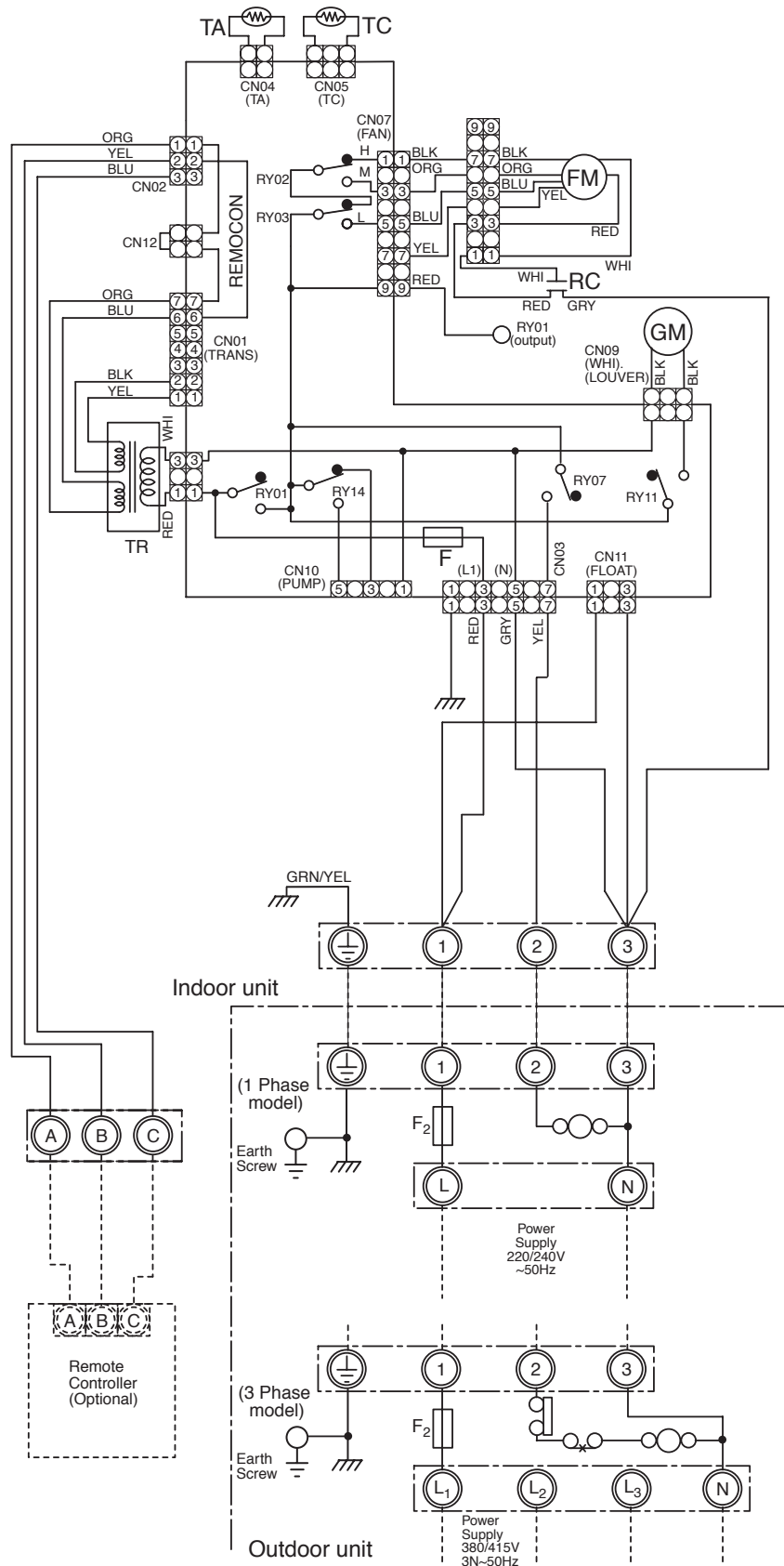
○ shows terminal block and figures show terminal numbers.
Broken lines show wiring at site.

Do not operate the units with the magnetic contactor pushed in.

Symbol	Name	Symbol	Name
FM	Fan Motor	TA	Sensor
RC	Running Capacitor	TC	Sensor
TR	Transformer	GM	Geared Motor
F	Fuse (PCB)	RY01-RY14	Relay

3. WIRING DIAGRAMS

3.3 RAV-164K-PE RAV-264K-PE



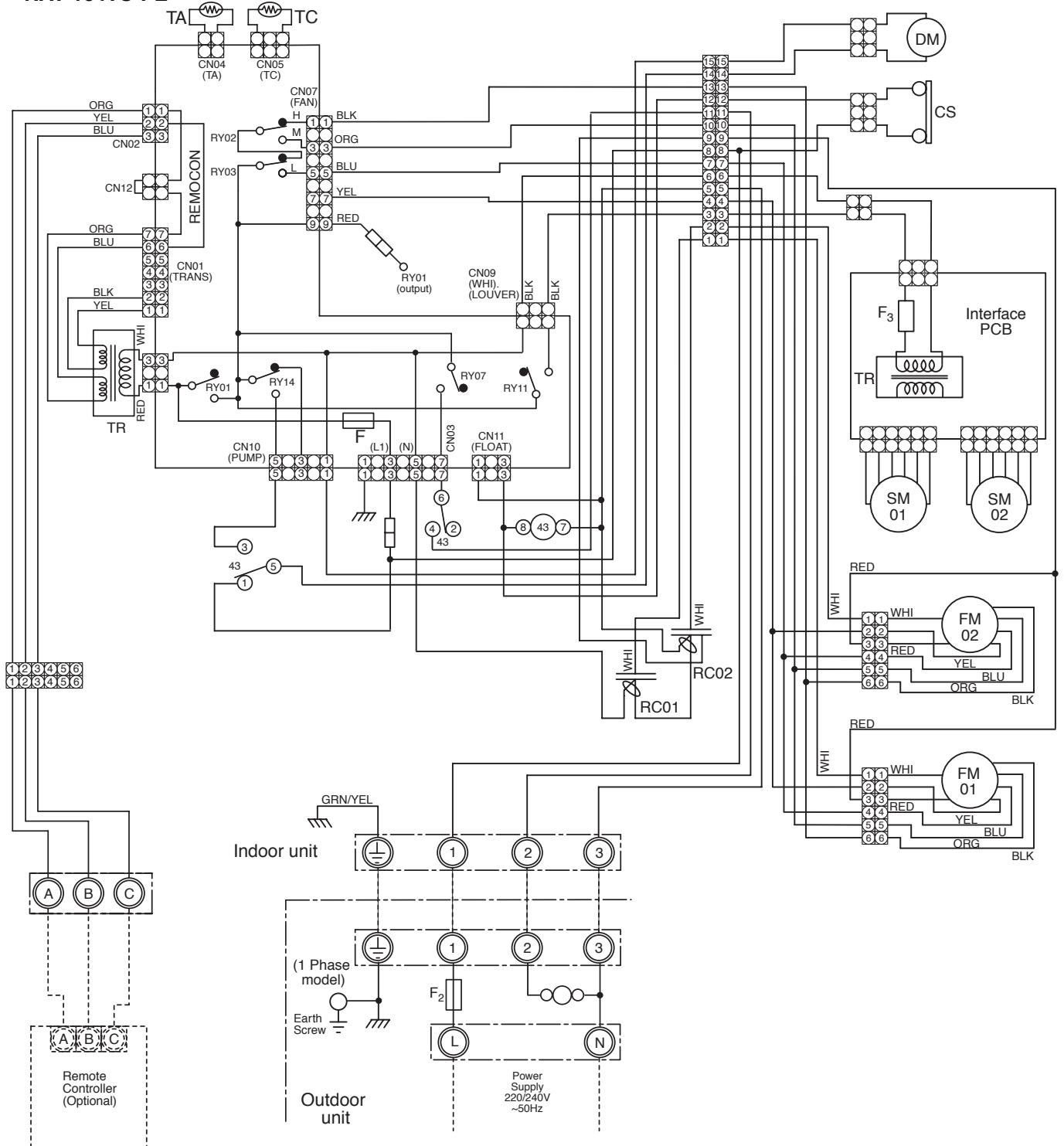
○ shows terminal block and figures show terminal numbers.
Broken lines show wiring at site.

Do not operate the units with the magnetic contactor pushed in.

Symbol	Name	Symbol	Name
FM	Fan Motor	TA	Sensor
RC	Running Capacitor	TC	Sensor
TR	Transformer	GM	Geared Motor
F	Fuse (PCB)	RY01~RY14	Relay

3. WIRING DIAGRAMS

3.4 RAV-134TU-PE RAV-164TU-PE



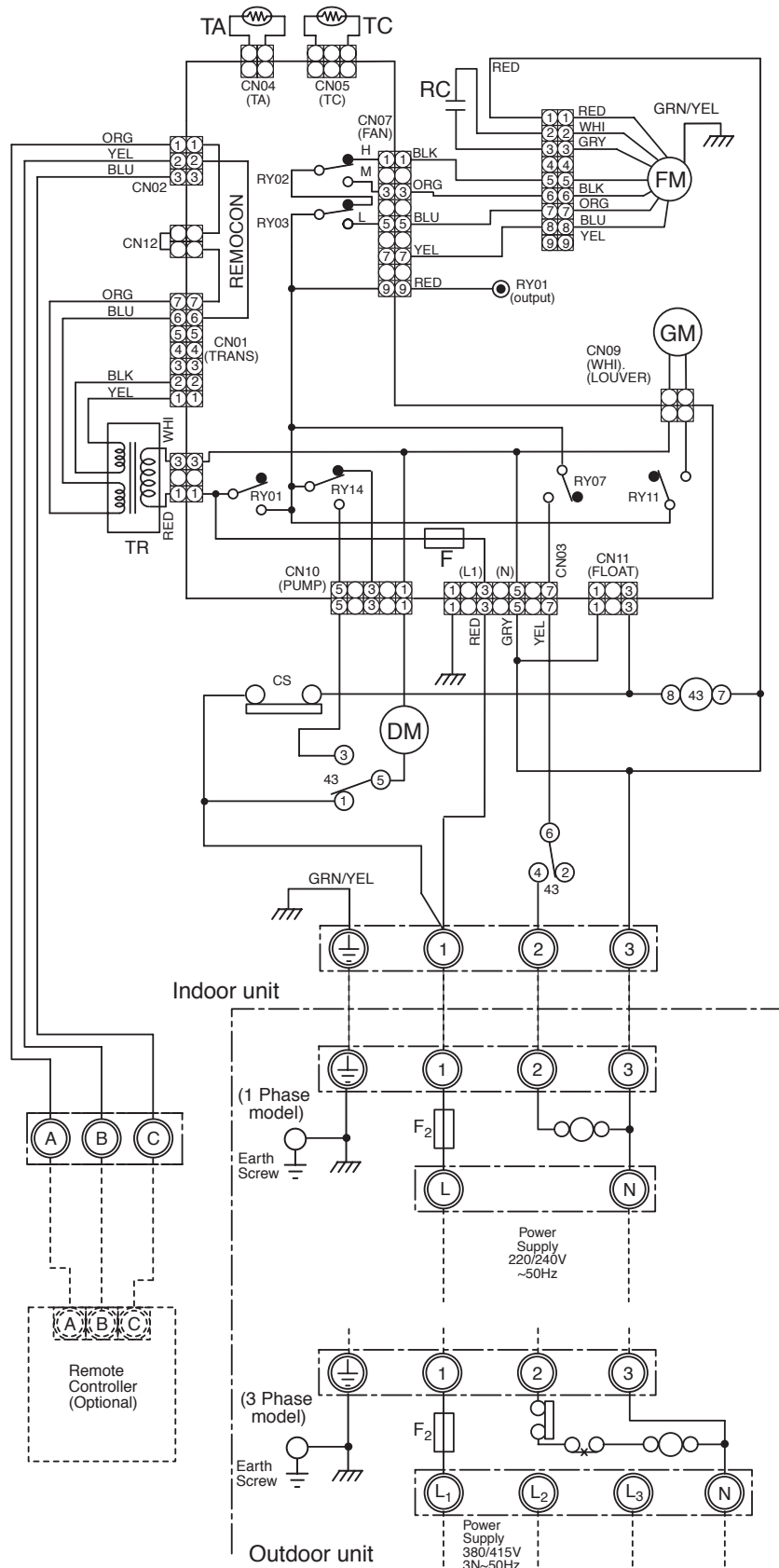
○ shows terminal block and figures show terminal numbers.
Broken lines show wiring at site.

Do not operate the units with the magnetic contactor pushed in.

Symbol	Name	Symbol	Name
FM01, 02	Fan Motor	F	Fuse (PCB)
RC01, 02	Running Capacitor	F3	Fuse (Interface) PCB
TR	Transformer	DM	Drain Pump
TA	Sensor	SM01, 02	Stepper Motor
TC	Sensor	CS	Float Switch
RY01-RY14	Relay	43	Relay

3. WIRING DIAGRAMS

3.5 RAV-164U-PE RAV-264U-PE RAV-364U-PE RAV-464U-PE



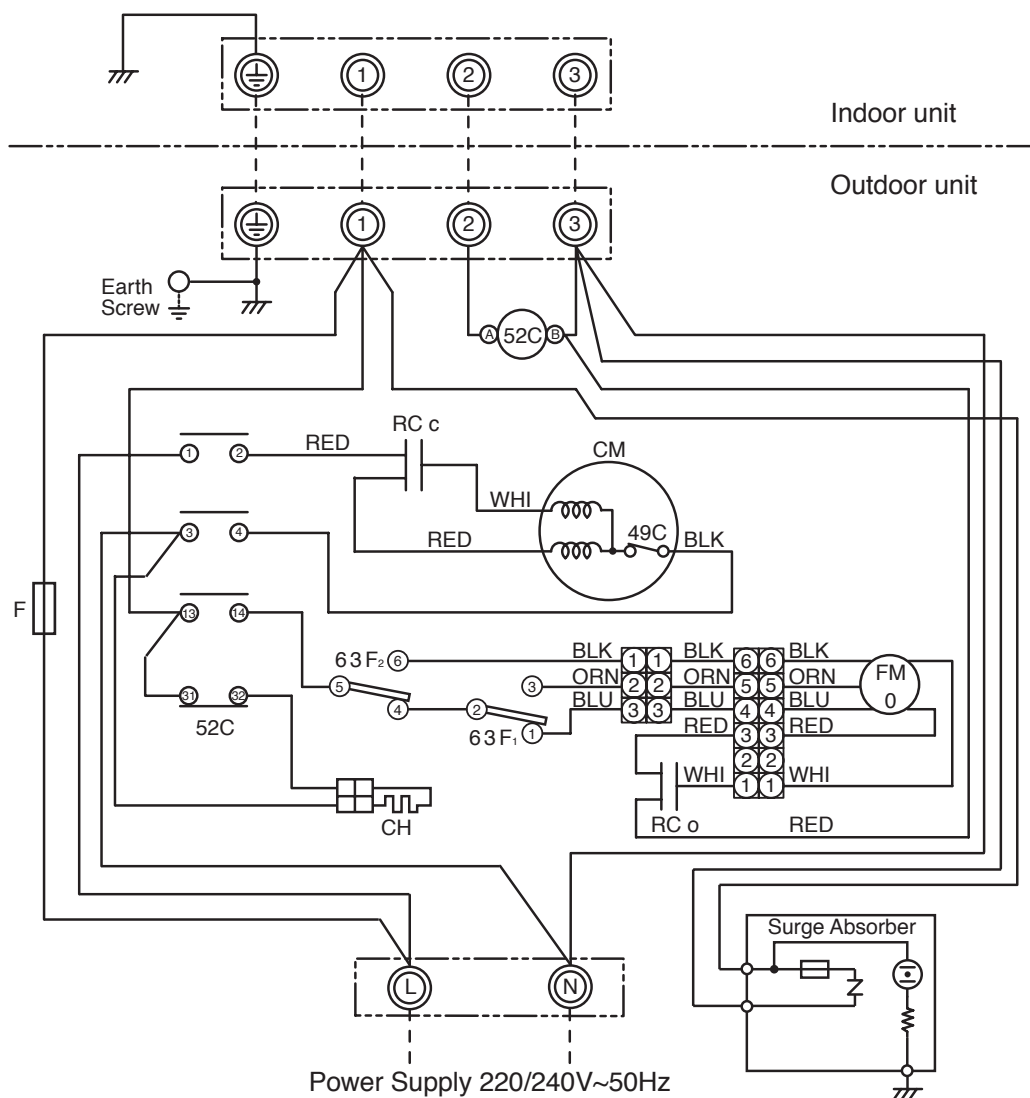
○ shows terminal block and figures show terminal numbers.
Broken lines show wiring at site.

Do not operate the units with the magnetic contactor pushed in.

Symbol	Name	Symbol	Name
FM	Fan Motor	TA	Sensor
RC	Running Capacitor	TC	Sensor
TR	Transformer	GM	Geared Motor
F	Fuse (PCB)	RY01-RY14	Relay
DM	Drain Motor	43	Relay
CS	Float Switch		

3. WIRING DIAGRAMS

3.6 RAV-134A-PE RAV-164A-PE RAV-264A-PE



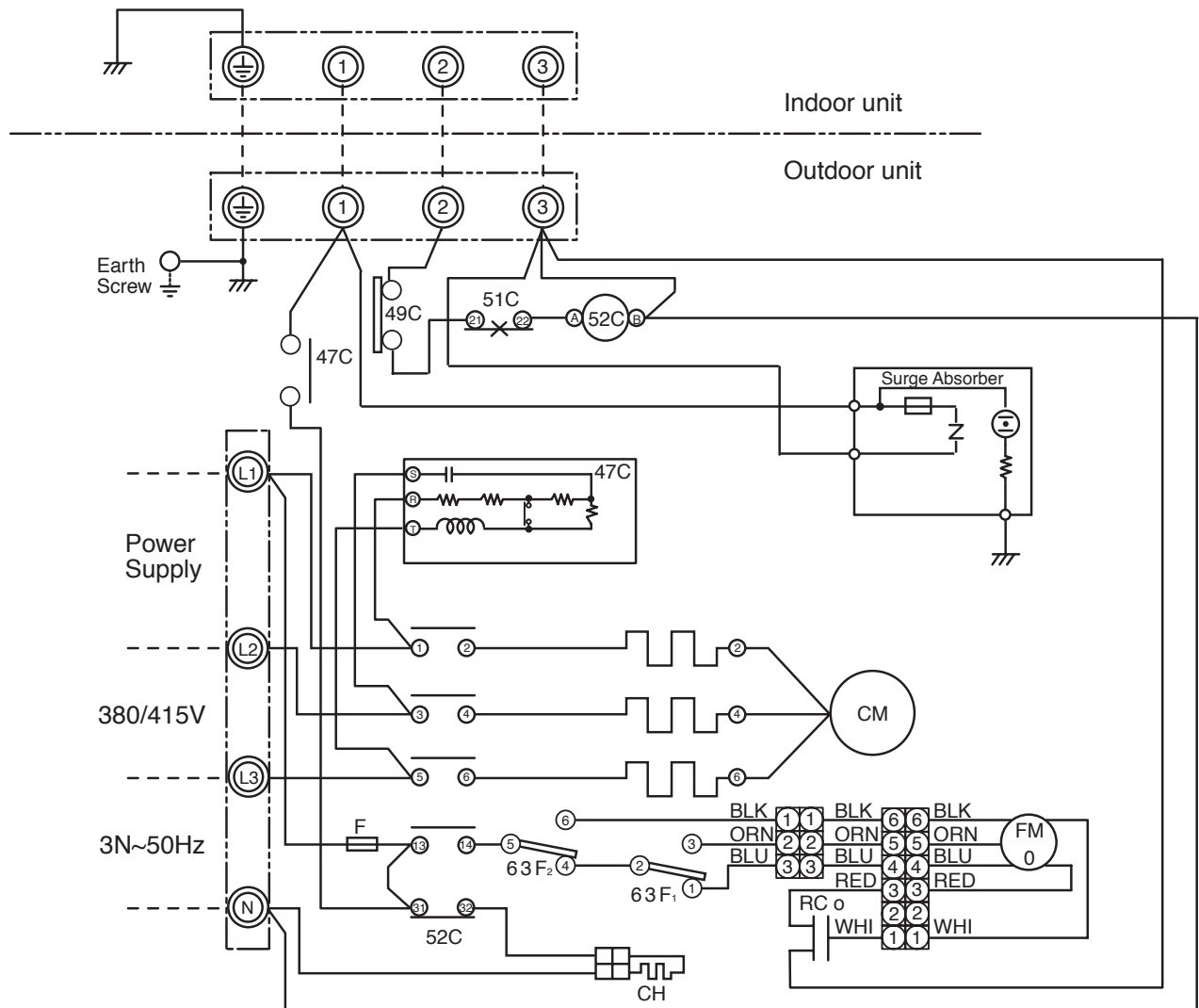
⊙ Shows terminal block and figures show terminal numbers. Broken lines show wiring at site.

Do not operate the units with magnetic contactor pushed in.

Symbol	Name	Symbol	Name
49C	Inner overload relay	CM	Compressor
RCc	Running capacitor (compressor)	52C	Magnetic contactor
RCo	Running capacitor (fan motor)	FMo	Fan motor
F	Fuse (T5A)	CH	Crankcase heater
63F1,2	Pressure Switch (2 Stage)		

3. WIRING DIAGRAMS

3.7 RAV-264A8-PE



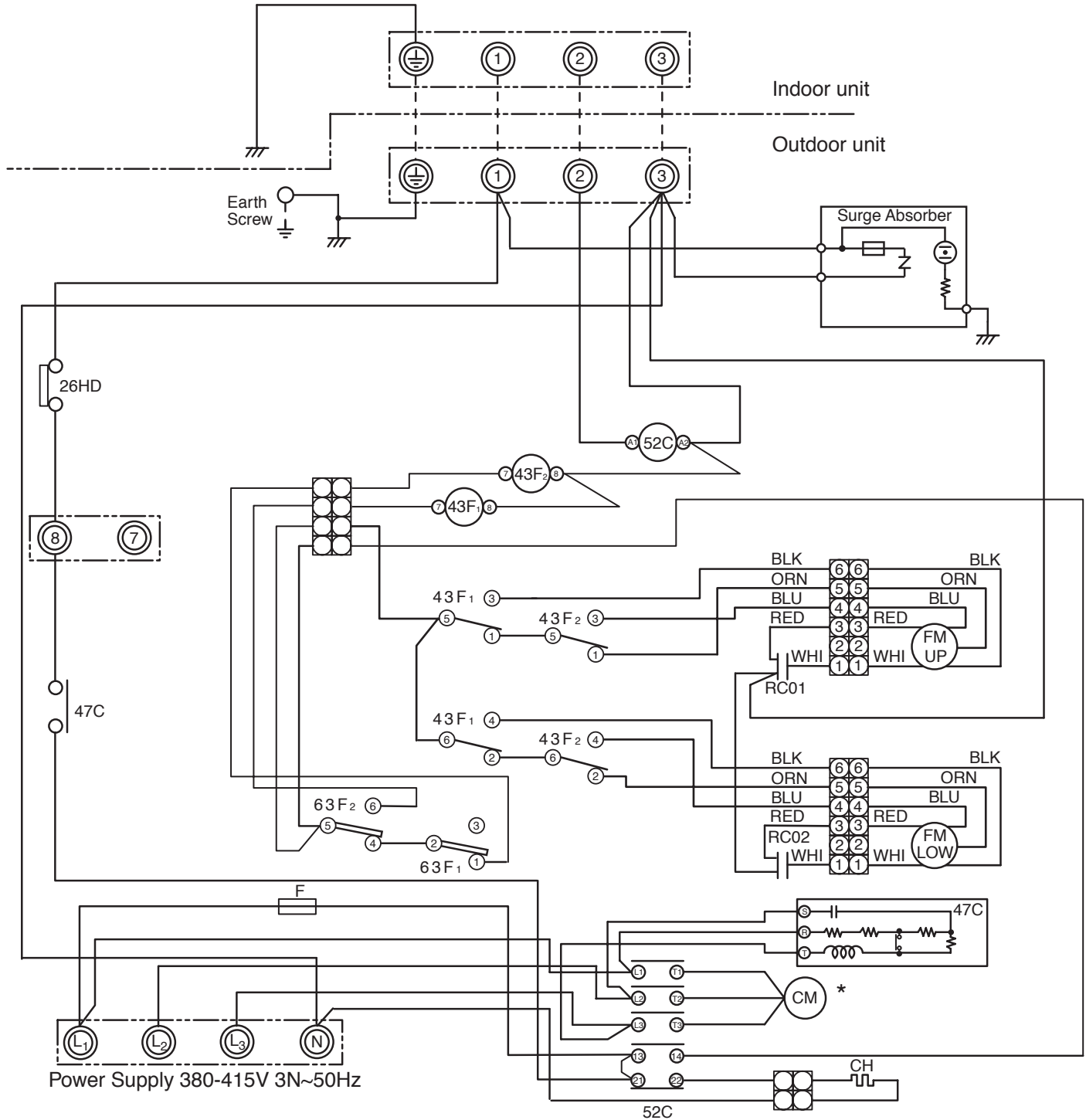
1.  Shows terminal block and figures show terminal numbers. Broken lines show wiring at site.
2. When the three phases are not connected correctly, the reverse phase protector operates, and the unit will not start. In this case, check the three phase wiring.

Do not operate the units with magnetic contactor pushed in.

Symbol	Name	Symbol	Name
49C	Thermostat	CM	Compressor
47C	Reverse Phase Protector	52C	Magnetic contactor
RCo	Running capacitor (fan motor)	FMo	Fan motor
F	Fuse (T5A)	CH	Crankcase heater
63F1,2	Pressure Switch (2 Stage)	51C	Overload relay

3. WIRING DIAGRAMS

3.8 RAV-364A8-PE RAV-464A8-PE



Shows terminal block and figures show terminal numbers.
Broken lines show wiring at site.

Do not operate the units with magnetic contactor pushed in.

* Compressor has internal thermal protection

Symbol	Name	Symbol	Name	Symbol	Name
63F _{1,2}	2-Stage Pressure Switch	CM	Compressor	RC01,02	Running capacitor
43F _{1,2}	Relay	52C	Magnetic contactor	CH	Crankcase heater
47C	Reverse Phase Protector	FMUP,LOW	Fan motor (Outdoor)	26HD	Bimetal Thermostat
F	Fuse (T5A)				

4. SPECIFICATIONS OF ELECTRICAL PARTS

4.1 RAV-164B-PE

No	PARTS NAME	TYPE	SPECIFICATIONS						
1	Indoor Unit fan motor	SMF-230-60-4A	Output (rated) 60W, 4 pole, 230V, 1 Phase, 50Hz						
2	Running capacitor for indoor fan motor	EEP2G405HQA114	AC 400V, 4 μ F						
3	Transformer (Indoor Unit)	ST-9586	AC 187-264V						
4	Sensor for room temperature		Maximum input 38mA	°C	15	20	25	30	40
				k Ω	16.1	12.6	10.0	8.0	5.2
5	Sensor for heat exchanger temperature		Maximum input 15.5mA	°C	-12		10		
				k Ω	67.5		21.3		

4.2 RAV-264B-PE

No	PARTS NAME	TYPE	SPECIFICATIONS						
1	Indoor Unit fan motor	STF-200-100-4B	Output (rated) 100W, 4 pole, 200V, 1 Phase, 50Hz						
2	Running capacitor for indoor fan motor	EAG40M505UF	AC 400V, 5 μ F						
3	Transformer (Indoor Unit)	ST-9586	AC 187-264V						
4	Sensor for room temperature		Maximum input 38mA	°C	15	20	25	30	40
				k Ω	16.1	12.6	10.0	8.0	5.2
5	Sensor for heat exchanger temperature		Maximum input 15.5mA	°C	-12		10		
				k Ω	67.5		21.3		

4.3 RAV-364B-PE

No	PARTS NAME	TYPE	SPECIFICATIONS						
1	Indoor Unit fan motor	STF-200-120-4B	Output (rated) 120W, 4 pole, 200V, 1 Phase, 50Hz						
2	Running capacitor for indoor fan motor	EAG40M505UF	AC 400V, 5 μ F						
3	Transformer (Indoor Unit)	ST-9586	AC 187-264V						
4	Sensor for room temperature		Maximum input 38mA	°C	15	20	25	30	40
				k Ω	16.1	12.6	10.0	8.0	5.2
5	Sensor for heat exchanger temperature		Maximum input 15.5mA	°C	-12		10		
				k Ω	67.5		21.3		

4.4 RAV464B-PE

No	PARTS NAME	TYPE	SPECIFICATIONS						
1	Indoor Unit fan motor	STF-200-140-4F	Output (rated) 140W, 4 pole, 200V, 1 Phase, 50Hz						
2	Running capacitor for indoor fan motor	EAG40M106UF	AC 400V, 10 μ F						
3	Transformer (Indoor Unit)	ST-9586	AC 187-264V						
4	Sensor for room temperature		Maximum input 38mA	°C	15	20	25	30	40
				k Ω	16.1	12.6	10.0	8.0	5.2
5	Sensor for heat exchanger temperature		Maximum input 15.5mA	°C	-12		10		
				k Ω	67.5		21.3		

4. SPECIFICATIONS OF ELECTRICAL PARTS

4.5 RAV-134C-PE

No	PARTS NAME	TYPE	SPECIFICATIONS						
1	Indoor Unit fan motor	SMF-230-34-4H	Output (rated) 34W, 4 pole, 230V, 1 Phase, 50Hz						
2	Running capacitor for indoor fan motor	EEP2H155HQA107	AC 500V, 1.5 μ F						
3	Transformer (Indoor Unit)	ST-9586	AC 187-264V						
4	Geared motor	MT8-3-6	AC 230V, 3W						
5	Sensor for room temperature		Maximum input 38mA	°C	15	20	25	30	40
				k Ω	16.1	12.6	10.0	8.0	5.2
6	Indoor Unit sensor for heat exchanger temperature		Maximum input 15.5mA				°C	-12	10
							k Ω	67.5	21.3

4.6 RAV-164C-PE

No	PARTS NAME	TYPE	SPECIFICATIONS						
1	Indoor Unit fan motor	SMF-230-34-4D	Output (rated) 34W, 4 pole, 230V, 1 Phase, 50Hz						
2	Running capacitor for indoor fan motor	EEP2W255HQA113	AC 450V, 2.5 μ F						
3	Transformer (Indoor Unit)	ST-9586	AC 187-264V						
4	Geared motor	MT8-3-6	AC 230V, 3W						
5	Sensor for room temperature		Maximum input 38mA	°C	15	20	25	30	40
				k Ω	16.1	12.6	10.0	8.0	5.2
6	Indoor Unit sensor for heat exchanger temperature		Maximum input 15.5mA				°C	-12	10
							k Ω	67.5	21.3

4.7 RAV-264C-PE

No	PARTS NAME	TYPE	SPECIFICATIONS						
1	Indoor Unit fan motor	SMF-230-34-4D	Output (rated) 34W, 4 pole, 230V, 1 Phase, 50Hz						
2	Running capacitor for indoor fan motor	EEP2W255HQA113	AC 450V, 2.5 μ F						
3	Transformer (Indoor Unit)	ST-9586	AC 187-264V						
4	Geared motor	MT8-3-6	AC 230V, 3W						
5	Sensor for room temperature		Maximum input 38mA	°C	15	20	25	30	40
				k Ω	16.1	12.6	10.0	8.0	5.2
6	Indoor Unit sensor for heat exchanger temperature		Maximum input 15.5mA				°C	-12	10
							k Ω	67.5	21.3

4. SPECIFICATIONS OF ELECTRICAL PARTS

4.8 RAV-364C-PE

No	PARTS NAME	TYPE	SPECIFICATIONS						
1	Indoor Unit fan motor	SMF-230-75-4U	Output (rated) 75W, 4 pole, 230V, 1 Phase, 50Hz						
2	Running capacitor for indoor fan motor	EVM45M305UF	AC 450V, 3.0 μ F						
3	Transformer (Indoor Unit)	ST-9586	AC 187-264V						
4	Geared motor	MT8-3-6	AC 230V, 3W						
5	Sensor for room temperature		Maximum input 38mA	°C	15	20	25	30	40
				k Ω	16.1	12.6	10.0	8.0	5.2
6	Indoor Unit sensor for heat exchanger temperature		Maximum input 15.5mA	°C	-12	10			
				k Ω	67.5	21.3			

4.9 RAV-464C-PE

No	PARTS NAME	TYPE	SPECIFICATIONS						
1	Indoor Unit fan motor	SMF-230-75-4B	Output (rated) 75W, 4 pole, 230V, 1 Phase, 50Hz						
2	Running capacitor for indoor fan motor	EEP2G405HQA114	AC 400V, 4.0 μ F						
3	Transformer (Indoor Unit)	ST-9586	AC 187-264V						
4	Geared motor	MT8 -3-6	AC 230V, 3W						
5	Sensor for room temperature		Maximum input 38mA	°C	15	20	25	30	40
				k Ω	16.1	12.6	10.0	8.0	5.2
6	Indoor Unit sensor for heat exchanger temperature		Maximum input 15.5mA	°C	-12	10			
				k Ω	67.5	21.3			

4. SPECIFICATIONS OF ELECTRICAL PARTS

4.10 RAV-164K-PE

No	PARTS NAME	TYPE	SPECIFICATIONS						
1	Indoor Unit fan motor	MMF-230-27-4P	Output (rated) 27W, 4 pole, 230V, 1 Phase, 50Hz						
2	Running capacitor for indoor fan motor	EEP2H155HQA107	AC 500V, 1.5 μ F						
3	Transformer (Indoor Unit)	ST-9586	AC 187-264V						
4	Geared motor	MT8-3-6	AC 230V, 3W						
5	Sensor for room temperature		Maximum input 38mA	°C	15	20	25	30	40
				k Ω	16.1	12.6	10.0	8.0	5.2
6	Indoor Unit sensor for heat exchanger temperature		Maximum input 15.5mA				°C	-12	10
							k Ω	67.5	21.3

4.11 RAV-264K-PE

No	PARTS NAME	TYPE	SPECIFICATIONS						
1	Indoor Unit fan motor	MMF-230-27-4R	Output (rated) 27W, 4 pole, 230V, 1 Phase, 50Hz						
2	Running capacitor for indoor fan motor	EEP2W205HQA107	AC 450V, 2.0 μ F						
3	Transformer (Indoor Unit)	ST-9586	AC 187-264V						
4	Geared motor	MT8-3-6	AC 230V, 3W						
5	Sensor for room temperature		Maximum input 38mA	°C	15	20	25	30	40
				k Ω	16.1	12.6	10.0	8.0	5.2
6	Indoor Unit sensor for heat exchanger temperature		Maximum input 15.5mA				°C	-12	10
							k Ω	67.5	21.3

4. SPECIFICATIONS OF ELECTRICAL PARTS

4.12 RAV-134TU-PE

No	PARTS NAME	TYPE	SPECIFICATIONS						
1	Indoor unit fan motor (x2)	PAF-230-7-4	Output (rated) 7W, 4 pole, 230V, 1 Phase, 50Hz						
2	Running capacitor for indoor fan motor (x2)	EEP2H105HQA105	AC 500V, 1.0 μ F						
3	Transformer (Indoor Unit)	ST-9586	AC 187-264V						
4	Stepper motor (x2)	MP35EA2	DC 12V, 80mNm						
5	Drain pump	PCD-4N230TF-3	AC 230V, 0.2A						
6	Float switch	FS-085-003E	AC 230V, 0.5A						
7	Sensor for room temperature		Maximum input 38mA	°C	15	20	25	30	40
				k Ω	16.1	12.6	10.0	8.0	5.2
8	Indoor Unit sensor for heat exchanger temperature		Maximum input 15.5mA				°C	-12	10
							k Ω	67.5	21.3
9	Relay	LY2F-L	AC 240V, 2ab						

4.13 RAV-164TU-PE

No	PARTS NAME	TYPE	SPECIFICATIONS						
1	Indoor unit fan motor (x2)	PAF-230-7-4	Output (rated) 7W, 4 pole, 230V, 1 Phase, 50Hz						
2	Running capacitor for indoor fan motor (x2)	EEP2H105HQA105	AC 500V, 1.0 μ F						
3	Transformer (Indoor Unit)	ST-9586	AC 187-264V						
4	Stepper motor (x2)	MP35EA2	DC 12V, 80mNm						
5	Drain pump	PCD-4N230TF-3	AC 230V, 0.2A						
6	Float switch	FS-085-003E	AC 230V, 0.5A						
7	Sensor for room temperature		Maximum input 38mA	°C	15	20	25	30	40
				k Ω	16.1	12.6	10.0	8.0	5.2
8	Indoor Unit sensor for heat exchanger temperature		Maximum input 15.5mA				°C	-12	10
							k Ω	67.5	21.3
9	Relay	LY2F-L	AC 240V, 2ab						

4. SPECIFICATIONS OF ELECTRICAL PARTS

4.14 RAV-164U-PE

No	PARTS NAME	TYPE	SPECIFICATIONS						
1	Indoor unit fan motor	MMF-230-28A	Output (rated) 28W, 6 pole, 230V, 1 Phase, 50Hz						
2	Running capacitor for indoor fan motor	EEP2H105HQA105	AC 500V, 1.0μF						
3	Transformer (Indoor Unit)	ST-9586	AC 187-264V						
4	Geared motor	MT8-3-8	AC240V, 3W						
5	Drain pump	PJV-0739	AC 230V, 0.2A						
6	Float switch	FS-085-003B	AC 230V, 0.5A						
7	Sensor for room temperature		Maximum input 38mA	°C	15	20	25	30	40
				kΩ	16.1	12.6	10.0	8.0	5.2
8	Indoor Unit sensor for heat exchanger temperature		Maximum input 15.5mA				°C	-12	10
							kΩ	67.5	21.3
9	Relay	LY2F-L	AC 240V, 2ab						

4.15 RAV-264U-PE

No	PARTS NAME	TYPE	SPECIFICATIONS						
1	Indoor unit fan motor	MMF-230-28A	Output (rated) 28W, 6 pole, 230V, 1 Phase, 50Hz						
2	Running capacitor for indoor fan motor	EEP2W205HQA107	AC 450V, 2.0μF						
3	Transformer (Indoor Unit)	ST-9586	AC 187-264V						
4	Geared motor	MT8-3-8	AC240V, 3W						
5	Drain pump	PJV-0739	AC 230V, 0.2A						
6	Float switch	FS-085-003B	AC 230V, 0.5A						
7	Sensor for room temperature		Maximum input 38mA	°C	15	20	25	30	40
				kΩ	16.1	12.6	10.0	8.0	5.2
8	Indoor Unit sensor for heat exchanger temperature		Maximum input 15.5mA				°C	-12	10
							kΩ	67.5	21.3
9	Relay	LY2F-L	AC 240V, 2ab						

4. SPECIFICATIONS OF ELECTRICAL PARTS

4.16 RAV-364U-PE

No	PARTS NAME	TYPE	SPECIFICATIONS						
1	Indoor unit fan motor	MMF-230-36A	Output (rated) 36W, 6 pole, 230V, 1 Phase, 50Hz						
2	Running capacitor for indoor fan motor	EEP2W255HQA113	AC 450V, 2.5 μ F						
3	Transformer (Indoor Unit)	ST-9586	AC 187-264V						
4	Geared motor	MT8-3-8	AC240V, 3W						
5	Drain pump	PJV-0739	AC 230V, 0.2A						
6	Float switch	FS-085-003B	AC 230V, 0.5A						
7	Sensor for room temperature		Maximum input 38mA	°C	15	20	25	30	40
				k Ω	16.1	12.6	10.0	8.0	5.2
8	Indoor Unit sensor for heat exchanger temperature		Maximum input 15.5mA				°C	-12	10
							k Ω	67.5	21.3
9	Relay	LY2F-L	AC 240V, 2ab						

4.17 RAV-464U-PE

No	PARTS NAME	TYPE	SPECIFICATIONS						
1	Indoor unit fan motor	MMF-230-36A	Output (rated) 36W, 6 pole, 230V, 1 Phase, 50Hz						
2	Running capacitor for indoor fan motor	EVM45M305UF	AC 450V, 3.0μF						
3	Transformer (Indoor Unit)	ST-9586	AC 187-264V						
4	Geared motor	MT8-3-8	AC240V, 3W						
5	Drain pump	PJV-0739	AC 230V, 0.2A						
6	Float switch	FS-085-003B	AC 230V, 0.5A						
7	Sensor for room temperature		Maximum input 38mA	°C	15	20	25	30	40
				kΩ	16.1	12.6	10.0	8.0	5.2
8	Indoor Unit sensor for heat exchanger temperature		Maximum input 15.5mA				°C	-12	10
							kΩ	67.5	21.3
9	Relay	LY2F-L	AC 240V, 2ab						

4. SPECIFICATIONS OF ELECTRICAL PARTS

4.18 RAV-134A-PE

No	PARTS NAME	TYPE	SPECIFICATIONS
1	Compressor	PG330X3F-4LS	Output (rated) 1.5kW, 2 pole, 220/240V, 1 Phase, 50Hz
2	Outdoor unit fan motor	SMF-230-39N-3	Output (rated) 39W, 6 pole, 230V, 1 Phase, 50Hz
3	Running capacitor for outdoor fan motor	EEP2G405HQA114	AC 400V, 4 μ F
4	Magnetic contactor	FMCa-1S-02	AC 220-240V, 50Hz
5	Pressure switch (2-Stage)	STB-X602	Tripping pressure 19kgf/cm ² G, 21kgf/cm ² G Resetting pressure 13kgf/cm ² G, 15kgf/cm ² G
6	Crankcase heater		AC 240V, 28W
7	Fuse		T5A
8	Running capacitor for compressor	MT-44MP456W	AC 440V, 45 μ F

4.19 RAV-164A-PE

No	PARTS NAME	TYPE	SPECIFICATIONS
1	Compressor	PG350X3F-4LS	Output (rated) 1.5kW, 2 pole, 220/240V, 1 Phase, 50Hz
2	Outdoor unit fan motor	SMF-230-39N-3	Output (rated) 39W, 6 pole, 230V, 1 Phase, 50Hz
3	Running capacitor for outdoor fan motor	EEP2G405HQA114	AC 400V, 4 μ F
4	Magnetic contactor	FMCa-1S-02	AC 220-240V, 50Hz
5	Pressure switch (2-Stage)	STB-X603	Tripping pressure 21kgf/cm ² G, 23kgf/cm ² G Resetting pressure 15kgf/cm ² G, 17kgf/cm ² G
6	Crankcase heater		AC 240V, 28W
7	Fuse		T5A
8	Running capacitor for compressor	MT-44MP456W	AC 440V, 45 μ F

4.20 RAV-264A-PE

No	PARTS NAME	TYPE	SPECIFICATIONS
1	Compressor	PG460X3F-4MS	Output (rated) 2.2kW, 2 pole, 220/240V, 1 Phase, 50Hz
2	Outdoor unit fan motor	SMF-230-63N-3	Output (rated) 63W, 6 pole, 230V, 1 Phase, 50Hz
3	Running capacitor for outdoor fan motor	EEP2G405HQA114	AC 400V, 4 μ F
4	Magnetic contactor	FMCa-1S-02	AC 220-240V, 50Hz
5	Pressure switch (2-Stage)	STB-X603	Tripping pressure 21kgf/cm ² G, 23kgf/cm ² G Resetting pressure 15kgf/cm ² G, 17kgf/cm ² G
6	Crankcase heater		AC 240V, 28W
7	Fuse		T5A
8	Running capacitor for compressor	EAR42M606UF	AC 420V, 60 μ F

4. SPECIFICATIONS OF ELECTRICAL PARTS

4.21 RAV-264A8-PE

No	PARTS NAME	TYPE	SPECIFICATIONS
1	Compressor	YG460X3F-MS	Output (rated) 2.2kW, 2 pole, 380/415V, 3 Phase, 50Hz
2	Outdoor unit fan motor	SMF-230-63N-3	Output (rated) 63W, 6 pole, 230V, 1 Phase, 50Hz
3	Running capacitor for outdoor fan motor	EEP2G405HQA114	AC 400V, 4 μ F
4	Magnetic contactor	FMSa-1	AC 220-240V, 50Hz
5	Pressure switch (2-Stage)	STB-X603	Tripping pressure 21kgf/cm ² G, 23kgf/cm ² G Resetting pressure 15kgf/cm ² G, 17kgf/cm ² G
6	Crankcase heater		AC 240V, 28W
7	Fuse		T5A
8	Reverse Phase Protector	STR-4AD	

4. SPECIFICATIONS OF ELECTRICAL PARTS

4.22 RAV-364A8-PE

No	PARTS NAME	TYPE	SPECIFICATIONS
1	Compressor	ZR49KCE-TFD-230	Output (rated) 3.0kW, 2 pole, 380/415V, 3 Phase, 50Hz
			Winding resistance 3.73 Ω at 20°C
2	Outdoor unit fan motor	SMF-230-63N-3	Output (rated) 63W, 6 pole, 230V, 1 Phase, 50Hz
		SMF-230-39N-3	Output (rated) 39W, 6 pole, 230V, 1 Phase, 50Hz
3	Running capacitor for outdoor fan motor	EEP2G405HQA114	AC 400V, 4 μ F
4	Magnetic contactor	FC-2S	AC 230V, 50Hz
5	Pressure switch (2-Stage)	STB-X602	Tripping pressure 19kgf/cm ² G, 21kgf/cm ² G Resetting pressure 13kgf/cm ² G, 15kgf/cm ² G
6	Crankcase heater		AC 240V, 28W
7	Fuse		T5A
8	Reverse Phase Protector	STR-4AD	
9	Bimetal thermostat	CS-12A	Tripping temperature: 135°C Resetting temperature: 110°C

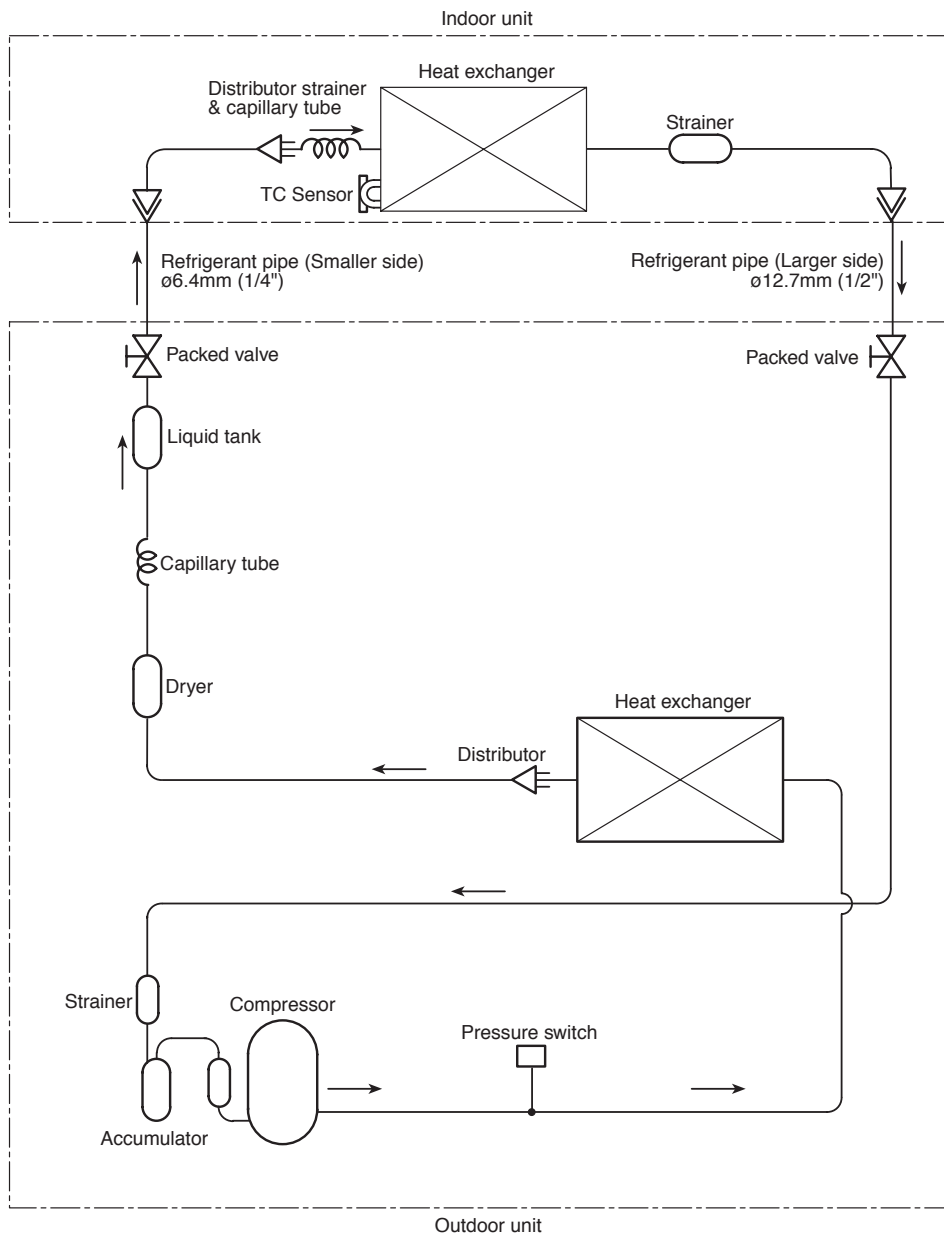
4.23 RAV-464A8-PE

No	PARTS NAME	TYPE	SPECIFICATIONS
1	Compressor	ZR61KCE-TFD-230	Output (rated) 3.75kW, 2 pole, 380/415V, 3 Phase, 50Hz
			Winding resistance 2.19 Ω at 20°C
2	Outdoor unit fan motor	SMF-230-63N-3	Output (rated) 63W, 6 pole, 230V, 1 Phase, 50Hz
		SMF-230-39N-3	Output (rated) 39W, 6 pole, 230V, 1 Phase, 50Hz
3	Running capacitor for outdoor fan motor	EEP2G405HQA114	AC 400V, 4 μ F
4	Magnetic contactor	FC-2S	AC 230V, 50Hz
5	Pressure switch (2-Stage)	STB-X602	Tripping pressure 19kgf/cm ² G, 21kgf/cm ² G Resetting pressure 13kgf/cm ² G, 15kgf/cm ² G
6	Crankcase heater		AC 240V, 28W
7	Fuse		T5A
8	Reverse Phase Protector	STR-4AD	
9	Bimetal thermostat	CS-12A	Tripping temperature: 135°C Resetting temperature: 110°C

5. REFRIGERANT PIPING DIAGRAMS

5.1 Indoor Unit RAV-134C-PE RAV-134TU-PE

Outdoor Unit RAV-134A-PE

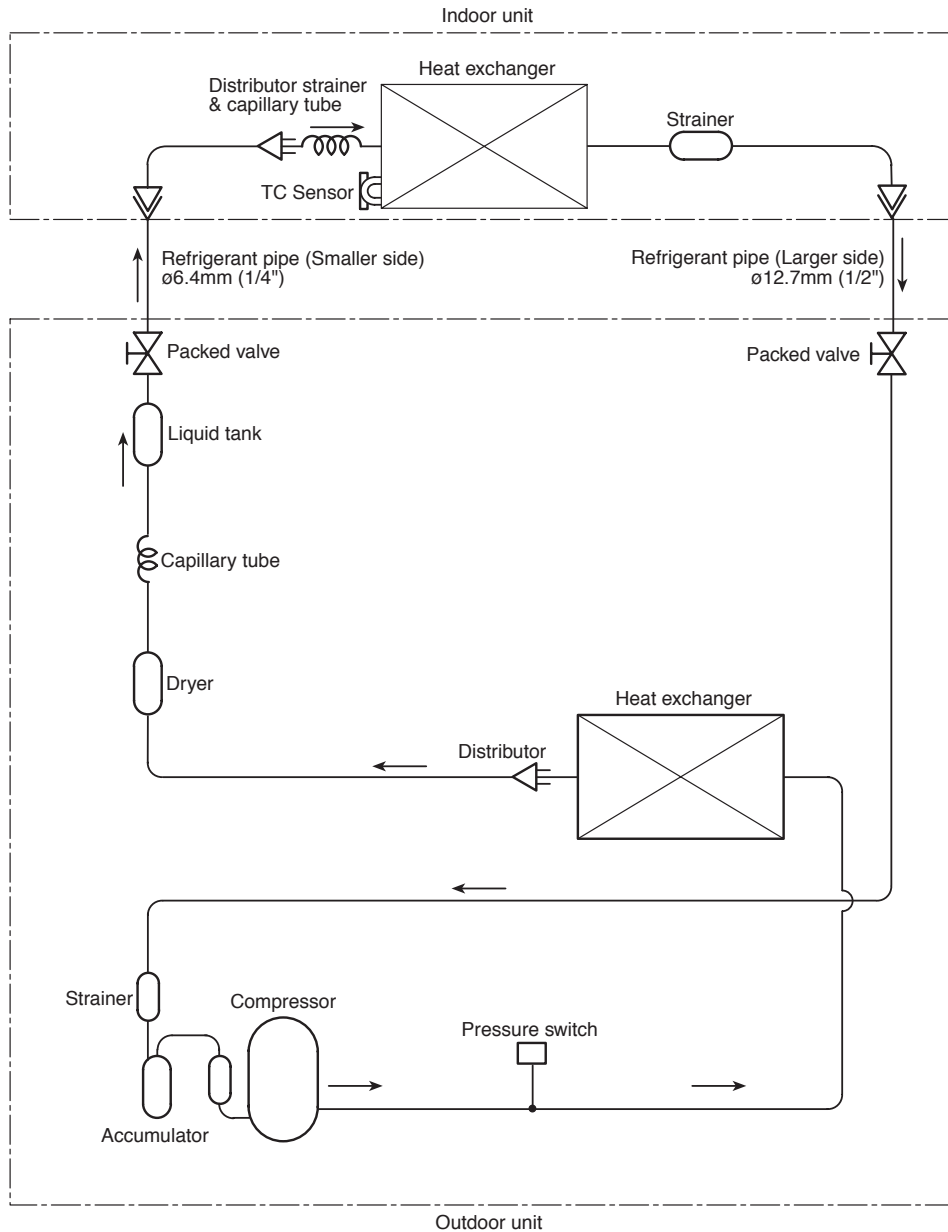


INDOOR UNIT		OUTDOOR UNIT	
Model	Capillary	Model	Main Capillary
RAV-134C-PE	ID ϕ 2.0x300Lx2P	RAV-134A-PE	ID ϕ 2.6x400Lx1P
	ID ϕ 2.0x200Lx2P		
RAV-134TU-PE	ID ϕ 2.4x300Lx2P		

5. REFRIGERANT PIPING DIAGRAMS

5.2 Indoor Unit RAV-164C-PE RAV-164B-PE RAV-164K-PE RAV-164TU-PE

Outdoor Unit RAV-164A-PE

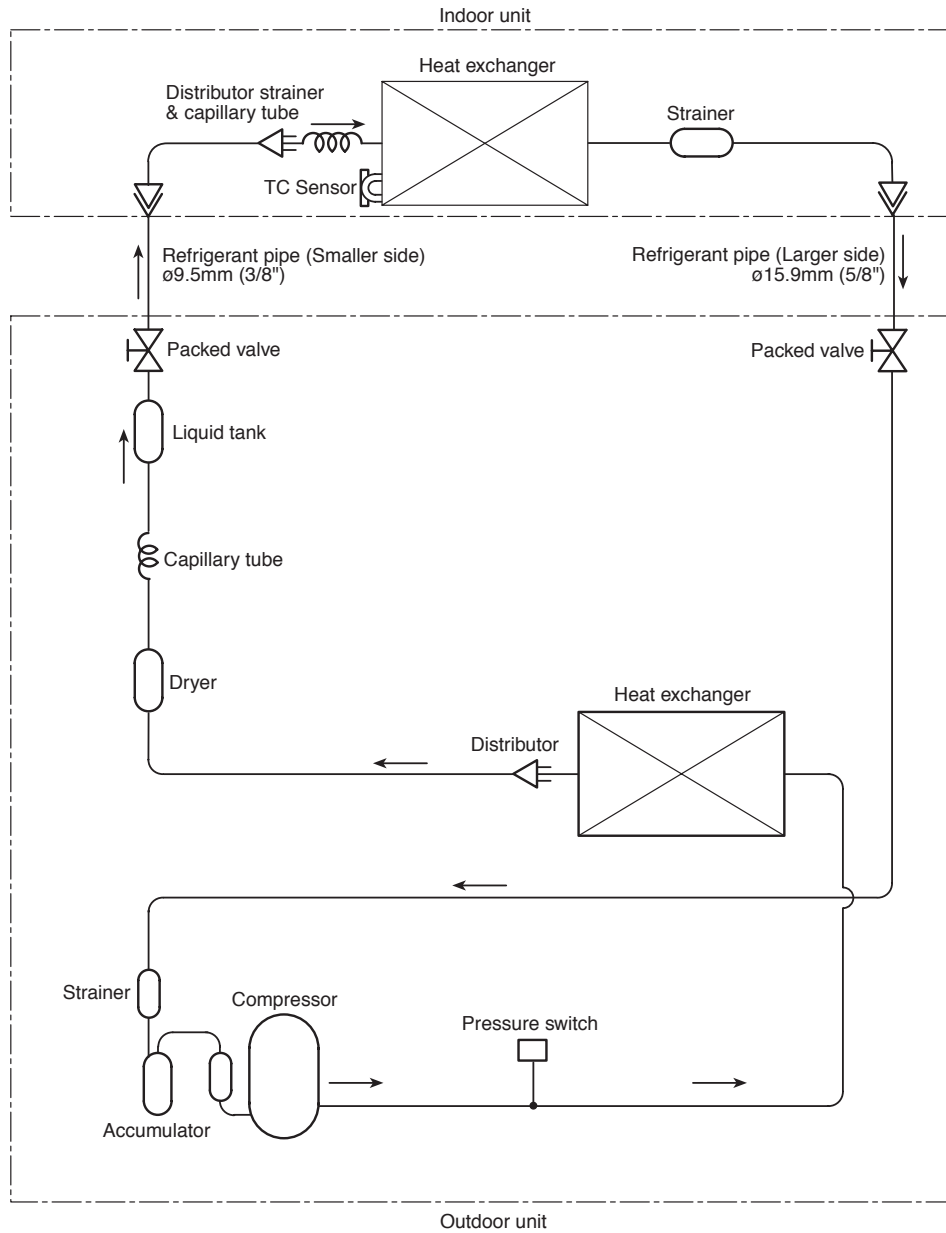


INDOOR UNIT		OUTDOOR UNIT	
Model	Capillary	Model	Main Capillary
RAV-164C-PE	ID ϕ 1.7x150Lx2P	RAV-164A-PE	ID ϕ 2.6x400Lx1P
	ID ϕ 1.7x300Lx1P		
RAV-164B-PE	ID ϕ 1.7x300Lx2P		
	ID ϕ 1.7x400Lx2P		
RAV-164K-PE	ID ϕ 1.7x300Lx2P		
	ID ϕ 1.7x400Lx2P		
RAV-164TU-PE	ID ϕ 2.2x200Lx2P		

5. REFRIGERANT PIPING DIAGRAMS

5.3 Indoor Unit RAV-264B-PE RAV-264C-PE RAV-264K-PE RAV-264U-PE

Outdoor Unit RAV-264A-PE RAV-264A8-PE

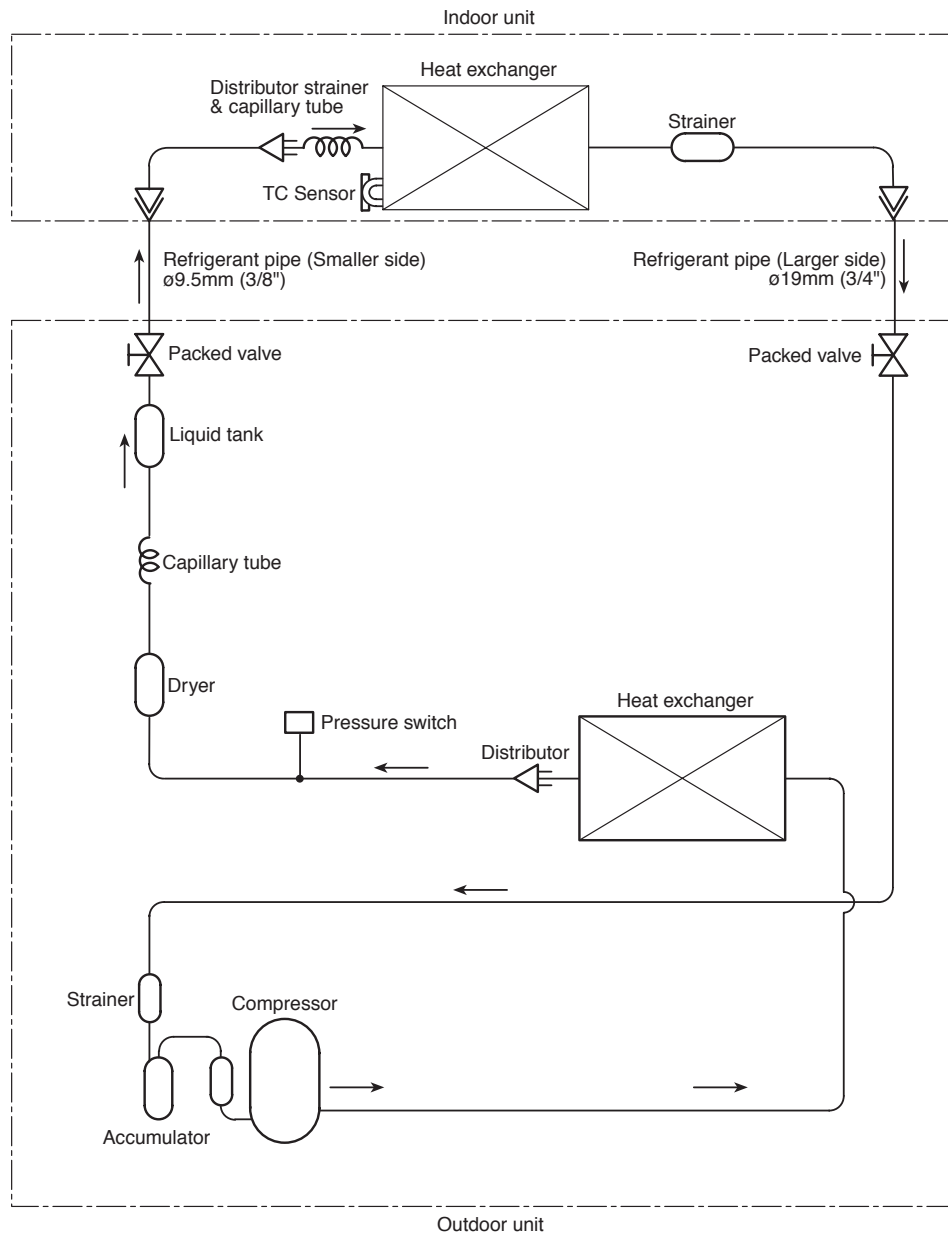


INDOOR UNIT		OUTDOOR UNIT	
Model	Capillary	Model	Main Capillary
RAV-264B-PE	IDø2.6x200Lx4P IDø2.6x400Lx2P	RAV-264A/A8-PE	IDø2.6x300Lx1P
RAV-264C-PE	IDø2.6x200Lx4P IDø2.6x600Lx2P		
RAV-264K-PE	IDø2.6x200Lx4P IDø2.6x400Lx2P		
RAV-264U-PE	IDø2.6x200Lx5P		
	IDø2.6x400Lx1P		

5. REFRIGERANT PIPING DIAGRAMS

5.4 Indoor Unit RAV-364C-PE RAV-364B-PE RAV-364U-PE

Outdoor Unit RAV-364A8-PE

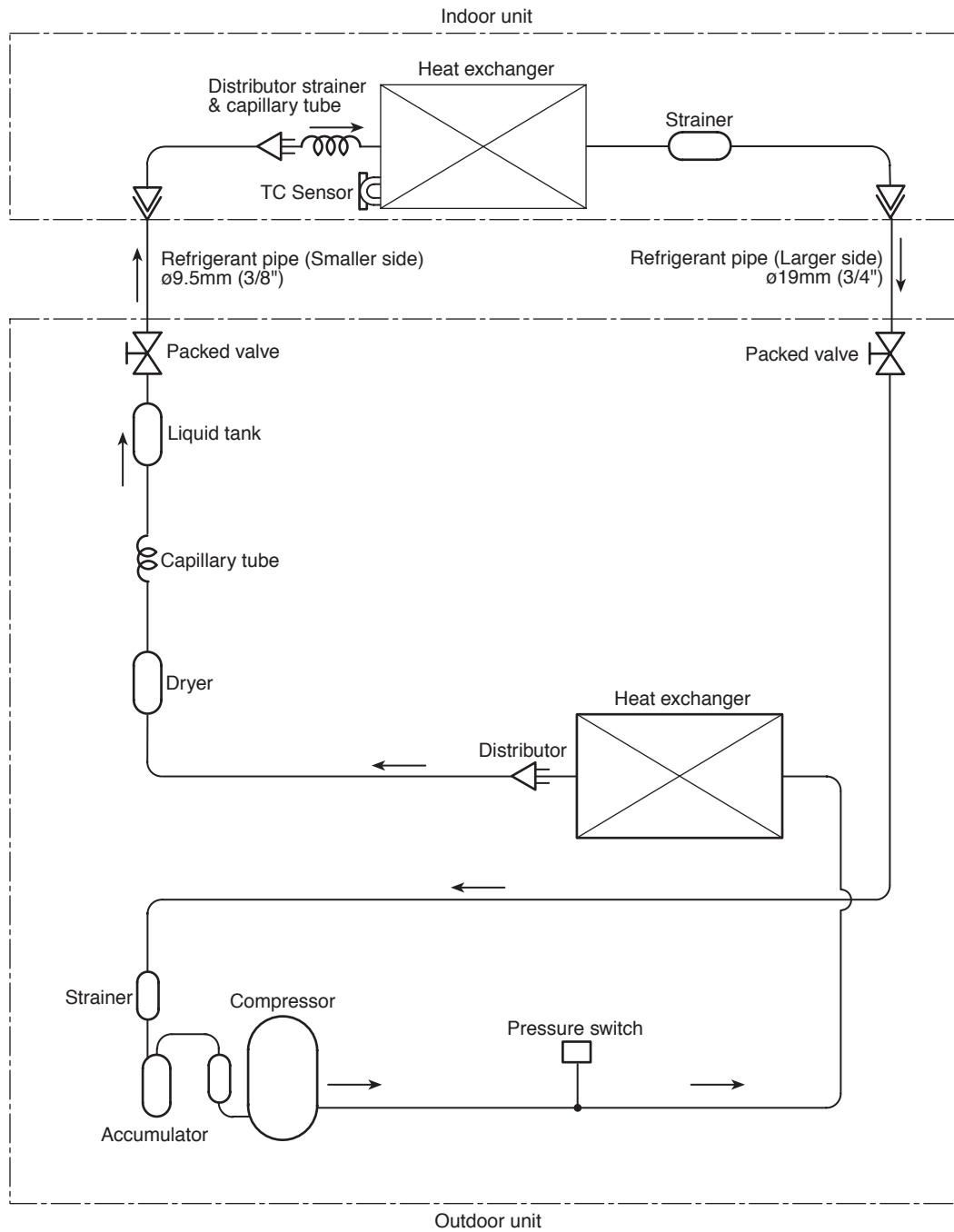


INDOOR UNIT		OUTDOOR UNIT	
MODEL	CAPILLARY	MODEL	MAIN CAPILLARY
RAV-364C-PE	IDø2.0x200Lx8P	RAV-364A8-PE	IDø2.4x500Lx1P
RAV-364B-PE	IDø2.2x200Lx6P		
RAV-364U-PE	IDø2.6x200Lx6P		
	IDø2.6x300Lx2P IDø2.6x500Lx2P		

5. REFRIGERANT PIPING DIAGRAMS

5.5 Indoor unit RAV-464C-PE RAV-464B-PE RAV-464U-PE

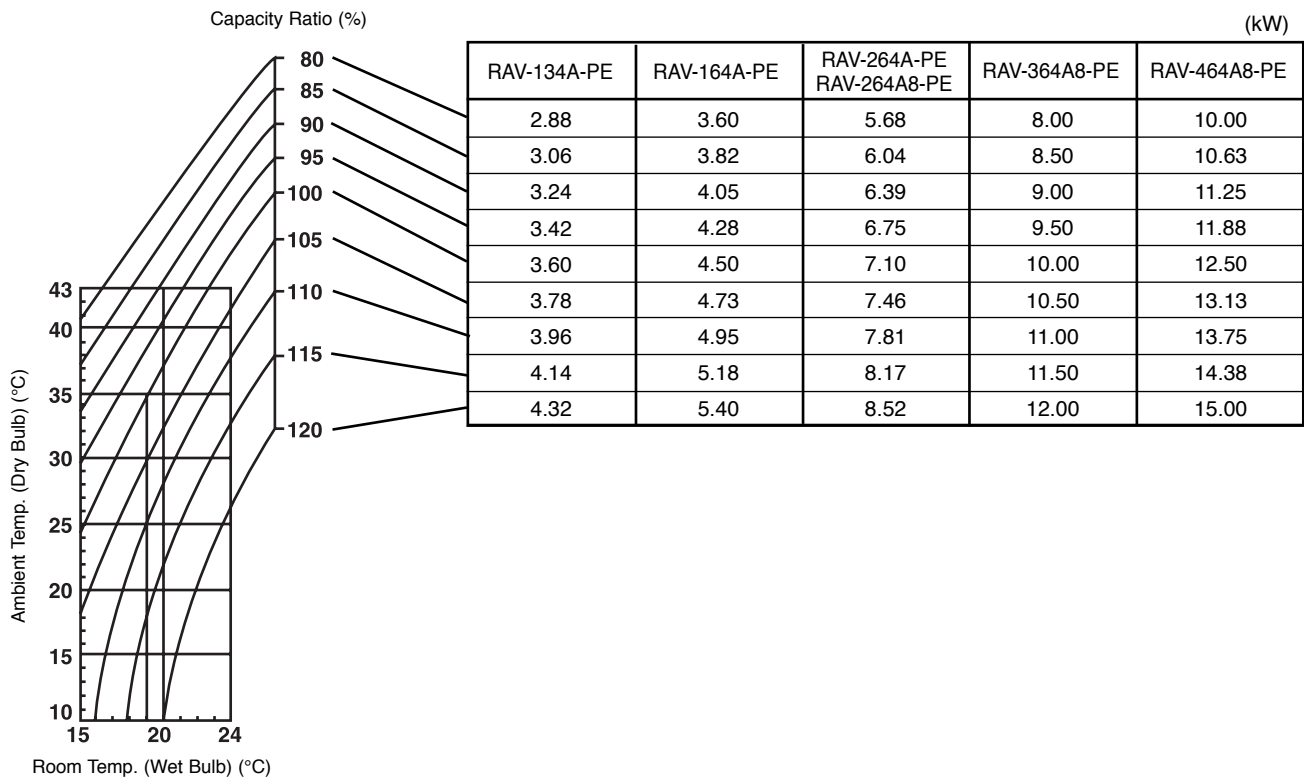
Outdoor unit RAV-464A8-PE



INDOOR UNIT		OUTDOOR UNIT	
MODEL	CAPILLARY	MODEL	MAIN CAPILLARY
RAV-464B-PE	IDø2.2x200Lx6P	RAV-464A8-PE	IDø3.0x600Lx1P
RAV-464C-PE	IDø2.0x200Lx8P		
RAV-464U-PE	IDø2.6x200Lx6P		
	IDø2.6x300Lx2P		
	IDø2.6x500Lx2P		

6. PERFORMANCE CHARACTERISTICS

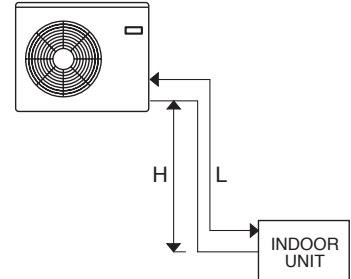
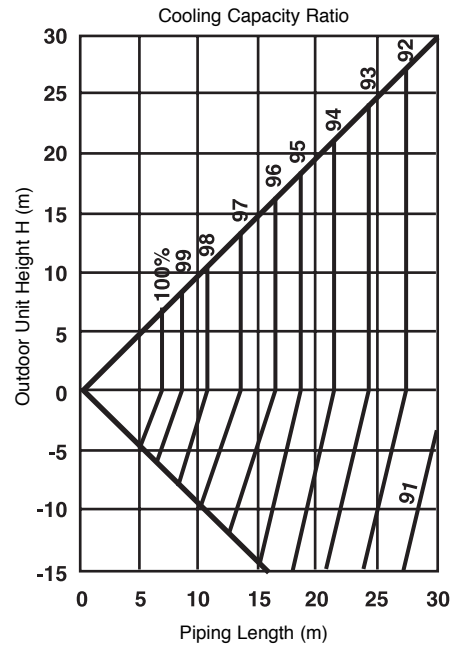
6.1 Cooling capacity



6. PERFORMANCE CHARACTERISTICS

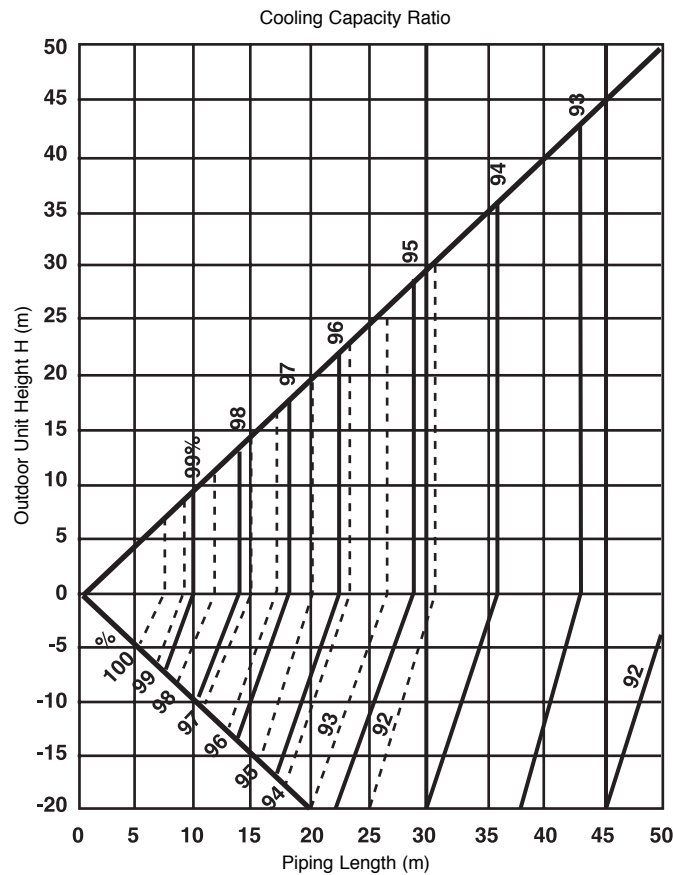
6.2 Capacity Correction Factors

RAV-134A-PE
RAV-164A-PE
RAV-264A-PE
RAV-264A8-PE



6.3 Capacity Correction Factors

RAV-364A8-PE
RAV-464A8-PE



The broken line shows in case the piping length is 30m or less

6. PERFORMANCE CHARACTERISTICS

6.4 Piping Length/Additional Refrigerant Volume

- ! The amount of refrigerant put into the outdoor unit at the factory is sufficient to fill up to 20m of refrigerant pipework.
- ! If the length of the refrigerant pipework is 20m or less, addition of refrigerant at the installation site is unnecessary.
- ! If the length of the pipework exceeds 20m, extra refrigerant must be added. Refer to the table below for details of the extra amounts.
- ! Overcharge or undercharge of refrigerant in the outdoor unit will cause malfunction of the compressor.

The prescribed amount of the replenishment of the refrigerant is shown in the table below:

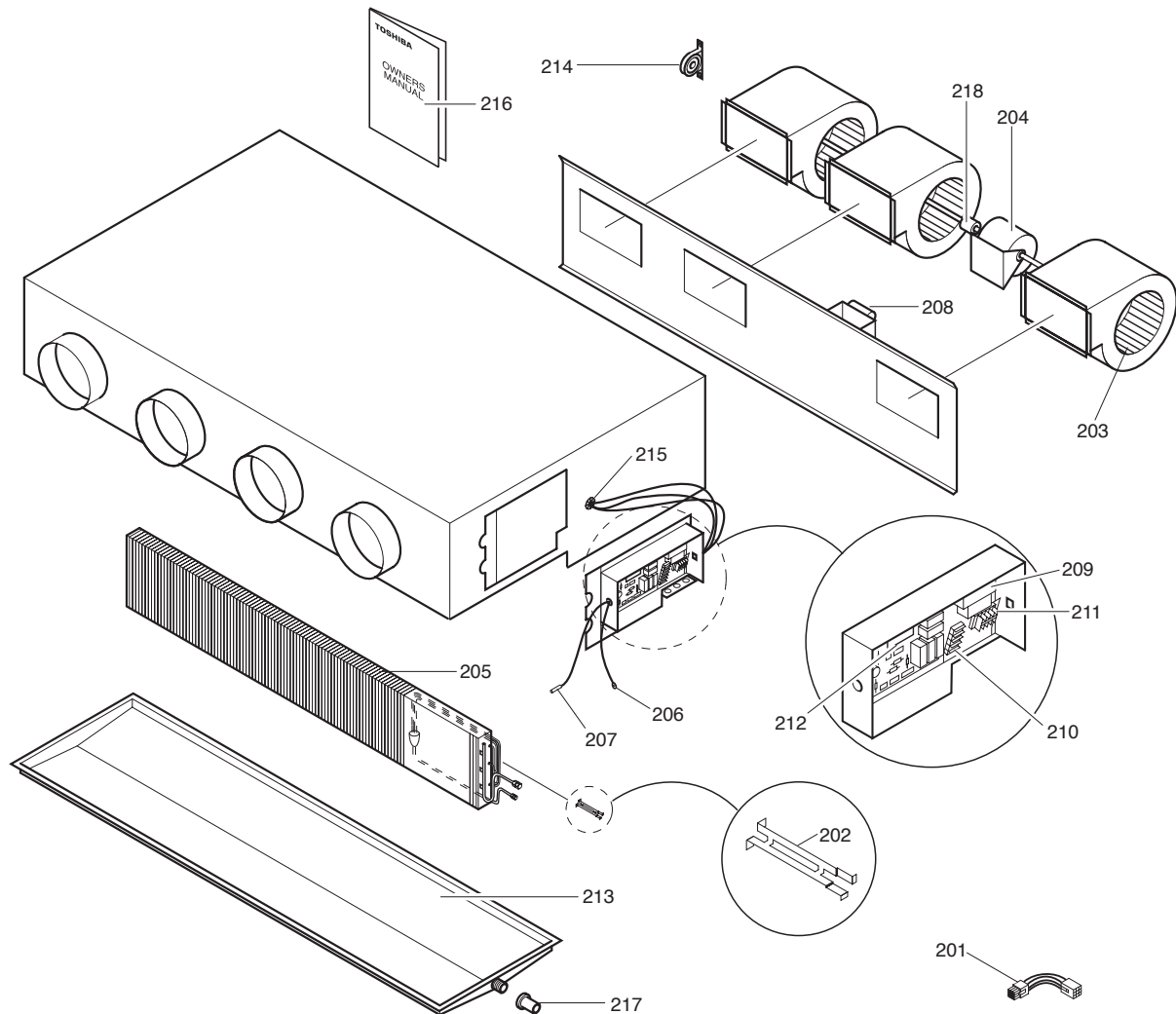
MODEL (RAV-)	Additional amount of refrigerant to add at installation site (kg)±50g							Recharge amount if unit is reclaimed (kg)±50g							
	Less than 20m	Less than 25m	Less than 30m	Less than 35m	Less than 40m	Less than 45m	Less than 50m	Less than 5m	Less than 20m	Less than 25m	Less than 30m	Less than 35m	Less than 40m	Less than 45m	Less than 50m
134A-PE	Filled at Factory	0.18	0.35	—	—	—	—	0.79	1.05	1.23	1.4	—	—	—	—
164A-PE		0.18	0.35	—	—	—	—	0.94	1.2	1.38	1.55	—	—	—	—
264A/A8-PE		0.18	0.35	—	—	—	—	1.64	1.9	2.08	2.25	—	—	—	—
364A8-PE		0.18	0.35	0.53	0.7	0.88	1.05	2.44	2.7	2.88	3.05	3.23	3.4	3.58	3.75
464A8-PE		0.25	0.5	0.75	1.0	1.25	1.5	3.13	3.5	3.75	4.0	4.25	4.5	4.75	5.0

! ADD ONLY R407C REFRIGERANT TO THESE UNITS

7. EXPLODED VIEWS AND PARTS LISTS

7.1 Indoor Unit

RAV-164B-PE
RAV-264B-PE
RAV-364B-PE
RAV-464B-PE



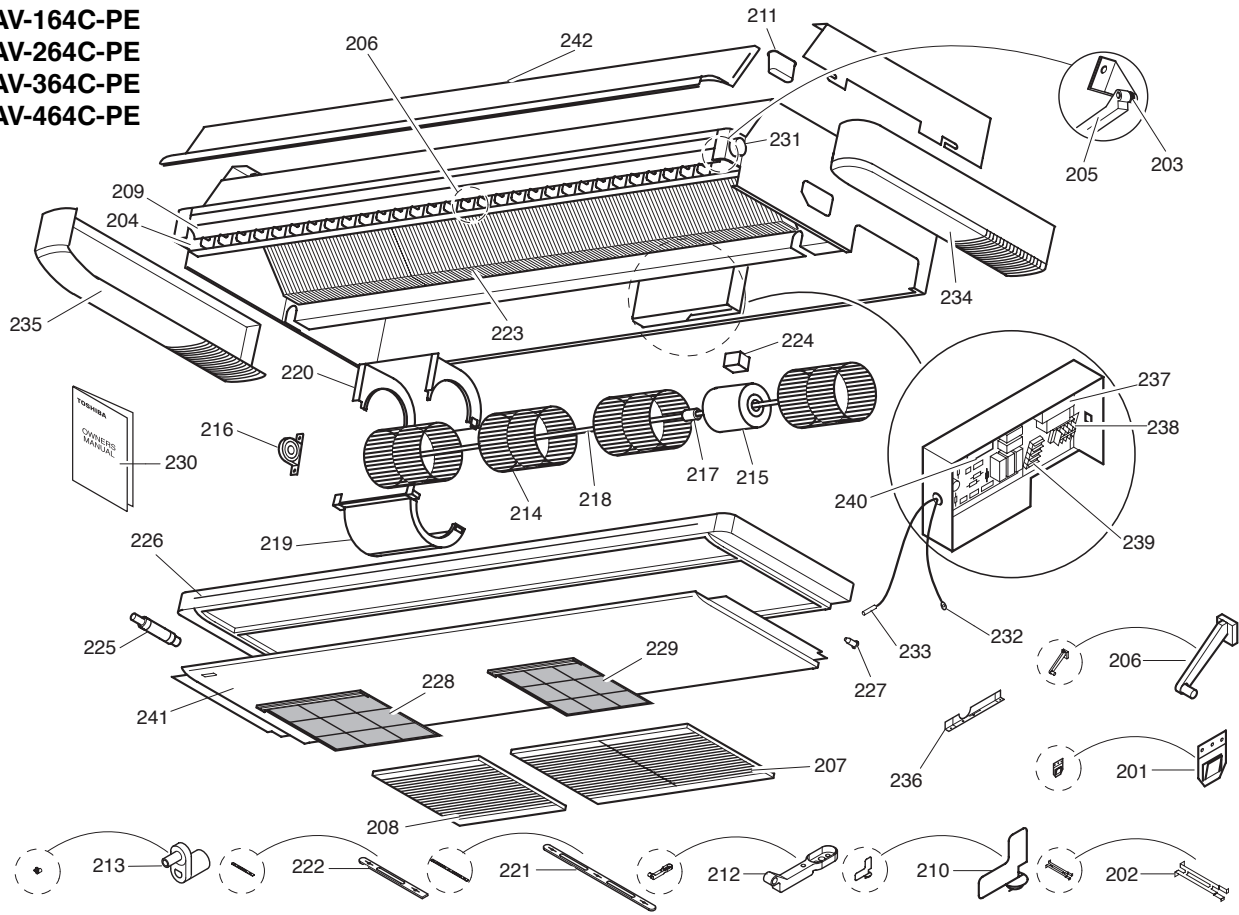
Ref No.	Part No.	Description	Model
201	43160394	Connector-9P	All
202	43107215	Sensor Holder	All
203	43120149	Fan-Multi Blade	All
204	43A21009	Fan Motor SMF-230-60-4A	RAV-164B-PE
204	43121516	Fan Motor STF-200-100-4B	RAV-264B-PE
204	43121528	Fan Motor STF-200-120-4B	RAV-364B-PE
204	43121535	Fan Motor STF-200-140-4F	RAV-464B-PE
205	43A44031	Refrigeration Asm	RAV-164B-PE
205	43A44032	Refrigeration Asm	RAV-264B-PE
205	43A44039	Refrigeration Asm	RAV-364B-PE
205	43A44040	Refrigeration Asm	RAV-464B-PE
206	43050377	Sensor-Room Temp	All
207	43A50004	Sensor-H/Exchanger	All
208	43155080	MF Capacitor 4 μ F 400V	RAV-164B-PE

Ref No.	Part No.	Description	Model
208	43155096	MF Capacitor 5 μ F 400V	RAV-264/364B-PE
208	43155097	MF Capacitor 10 μ F 400V	RAV-464B-PE
209	43A58002	Transformer	All
210	43A60002	Terminal Block –'ABC'	All
211	43A60001	Terminal Block – '123'	All
212	43A69005	PC Board	All
213	43A72004	Drain Pan Assembly	RAV-164B-PE
213	43A72005	Drain Pan Assembly	RAV-264B-PE
213	43191310	Drain Pan Assembly	RAV-364/464B-PE
214	43125135	Bearing	RAV-464B-PE
215	43A60009	Bushing	All
216	43A88011	Owners Manual	All
217	43A70002	Drain Socket	All
218	43125137	Coupling	RAV-464B-PE

7. EXPLODED VIEWS AND PARTS LISTS

7.2 Indoor Unit

RAV-134C-PE
RAV-164C-PE
RAV-264C-PE
RAV-364C-PE
RAV-464C-PE

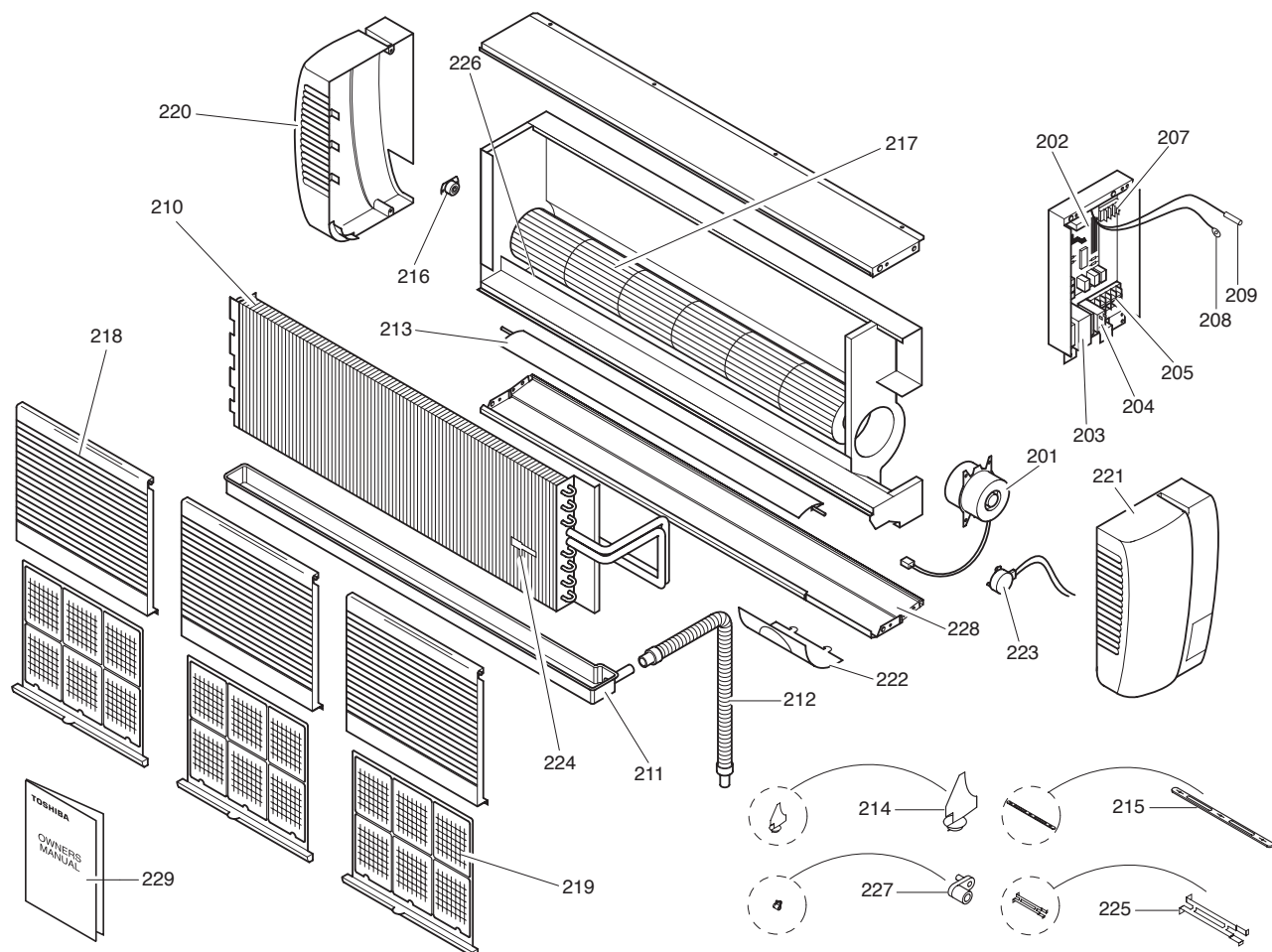


Ref No.	Part No.	Description	Model
201	43107214	Hinge	All
202	43107215	Sensor Holder	All
203	43107216	Spring	All
204	43107223	Grille Shaft – Left	All
205	43107222	Grille Shaft – Right	All
206	43107224	Grille Support – Centre	RAV-364/464C-PE
207	43109321	Inlet Grille – Large	264/364/464C-PE
208	43109322	Inlet Grille – Small	134/164/264/364C-PE
209	43109324	Horizontal Grille	RAV-134/164C-PE
209	43109320	Horizontal Grille	RAV-264C-PE
209	43109327	Horizontal Grille	RAV-364C-PE
209	43109328	Horizontal Grille	RAV-464C-PE
210	43109329	Vertical Grille	All
211	43119373	Bolt Cover	All
212	43119393	Shaft Holder	All
213	43119394	Lever	All
214	43120172	Fan – Multi Blade	134/164/264C-PE
214	43120174	Fan – Multi Blade	364/464C-PE
215	43A21013	Fan Motor	RAV-134C-PE
215	43A21005	Fan Motor	RAV-164/264C-PE
215	43A21007	Fan Motor	RAV-364C-PE
215	43A21006	Fan Motor	RAV-464C-PE
216	43125131	Bearing	164/264/364/464C-PE
217	43125142	Coupling	164/264/364/464C-PE
218	43125143	Shaft SS	RAV-164C-PE
218	43125141	Shaft SS	RAV-264C-PE
218	43125145	Shaft SS	RAV-364C-PE
218	43125144	Shaft SS	RAV-464C-PE
219	43126127	Fan Case – Lower	134/164/264C-PE
219	43126129	Fan Case – Lower	364/464C-PE
220	43126128	Fan Case – Upper	134/164/264C-PE
220	43126130	Fan Case – Upper	364/464C-PE
221	43A39004	Connect Bar	All
222	43A39005	Connect Bar	264/464C-PE
223	43A44037	Refrigeration Assembly	RAV-134C-PE

Ref No.	Part No.	Description	Model
223	43A44038	Refrigeration Assembly	RAV-164C-PE
223	43A44054	Refrigeration Assembly	RAV-264C-PE
223	43A44055	Refrigeration Assembly	RAV-364C-PE
223	43A44056	Refrigeration Assembly	RAV-464C-PE
224	43155101	MF Capacitor	RAV-134C-PE
224	43155138	MF Capacitor	RAV-164/264C-PE
224	43A55001	MF Capacitor	RAV-364C-PE
224	43155080	MF Capacitor	RAV-464C-PE
225	43A70007	Hose Assembly	All
226	43172121	Drain Pan Assembly	RAV-134/164C-PE
226	43172119	Drain Pan Assembly	RAV-264C-PE
226	43172122	Drain Pan Assembly	RAV-364C-PE
226	43172123	Drain Pan Assembly	RAV-464C-PE
227	43179107	Plug	All
228	43180284	Air Filter – Large	134/164/264C-PE
229	43180283	Air Filter – Small	264/464C-PE
230	43A88011	Owners Manual	All
231	43A21008	Geared Motor	All
232	43150148	Sensor – Room Temp. (TA)	All
233	43A50004	Sensor – H/Exchanger (TC)	All
234	43102624	Side Panel Right Assmb.	All
235	43102625	Side Panel Left Assmb.	All
236	43117812	Plate H	All
237	43A58002	Transformer	All
238	43A60001	Terminal Block 123	All
239	43A60002	Terminal Block ABC	All
240	43A69005	PC Board	All
241	43A91001	Under Panel	RAV-134/164C-PE
241	43A91002	Under Panel	RAV-264C-PE
241	43A91003	Under Panel	RAV-364C-PE
241	43A91004	Under Panel	RAV-464C-PE
242	43A91005	Upper Panel Asm	RAV-134/164C-PE
242	43A91006	Upper Panel Asm	RAV-264C-PE
242	43A91007	Upper Panel Asm	RAV-364C-PE
242	43A91008	Upper Panel Asm	RAV-464C-PE

7. EXPLODED VIEWS AND PARTS LISTS

7.3 Indoor Unit RAV164K-PE RAV264K-PE

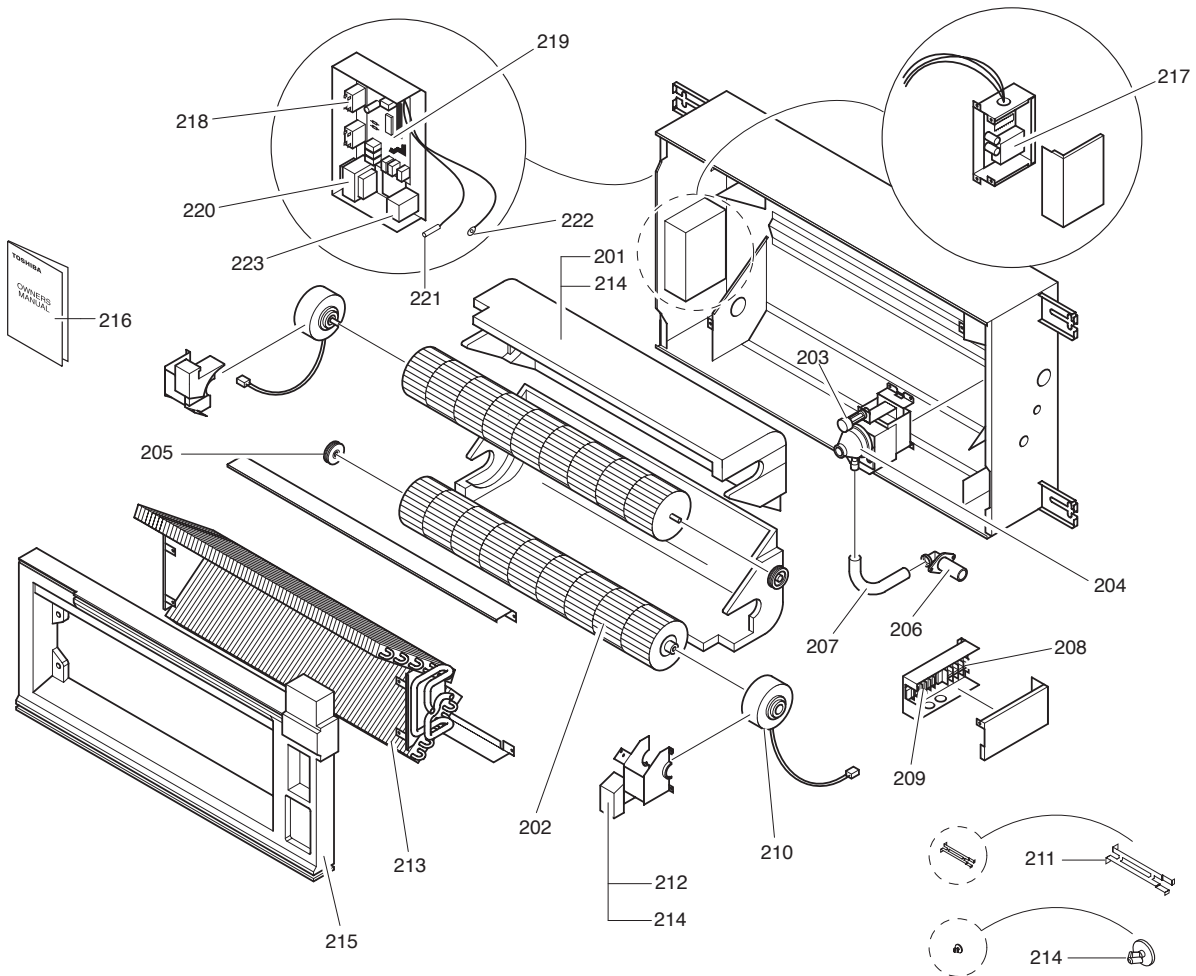


Ref No.	Part No.	Description	Model
201	43A21016	Fan – Motor	RAV-164K-PE
201	43A21017	Fan – Motor	RAV-264K-PE
202	43A69005	PC Board	All
203	43A58002	Transformer	All
204	45155101	Capacitor	RAV-164K-PE
204	43A55002	Capacitor	RAV-264K-PE
205	43A60001	Terminal 123	All
207	43A60002	Terminal ABC	All
208	43A50010	Sensor – Room Temperature TA	All
209	43A50009	Sensor – Heat Exchanger TC	All
210	43A44050	Refrigeration ASM	RAV-164K-PE
210	43A44051	Refrigeration ASM	RAV-264K-PE
211	43172112	Drain Pan	RAV-164K-PE
211	43172114	Drain Pan	RAV-264K-PE
212	43170182	Drain Hose	All
213	43A09005	H-Grille	RAV-164K-PE
213	43A09006	H-Grille	RAV-264K-PE
214	43A09003	V-Grille	All

Ref No.	Part No.	Description	Model
215	43A39004	Connection Bar	All
216	43022189	Bearing	All
217	43120135	Cross Flow Fan	RAV-164K-PE
217	43120136	Cross Flow Fan	RAV-264K-PE
218	43A09004	Inlet Grille	All
219	43A80008	Air Filter	All
220	43A00001	Side Cabinet – Left	All
221	43A00002	Side Cabinet – Right	All
222	43A00003	Control Panel	All
223	43121533	Geared Motor	All
224	43A19002	Sensor Holder, TA	All
225	43107215	Sensor Holder, TC	All
226	43122028	Fan Nose	RAV-164K-PE
226	43122029	Fan Nose	RAV-264K-PE
227	43119394	Lever	All
228	43A91050	D Cabi – Assembly	RAV-164K-PE
228	43A91051	D Cabi – Assembly	RAV-264K-PE
229	43A88011	Owner's Manual	All

7. EXPLODED VIEWS AND PARTS LISTS

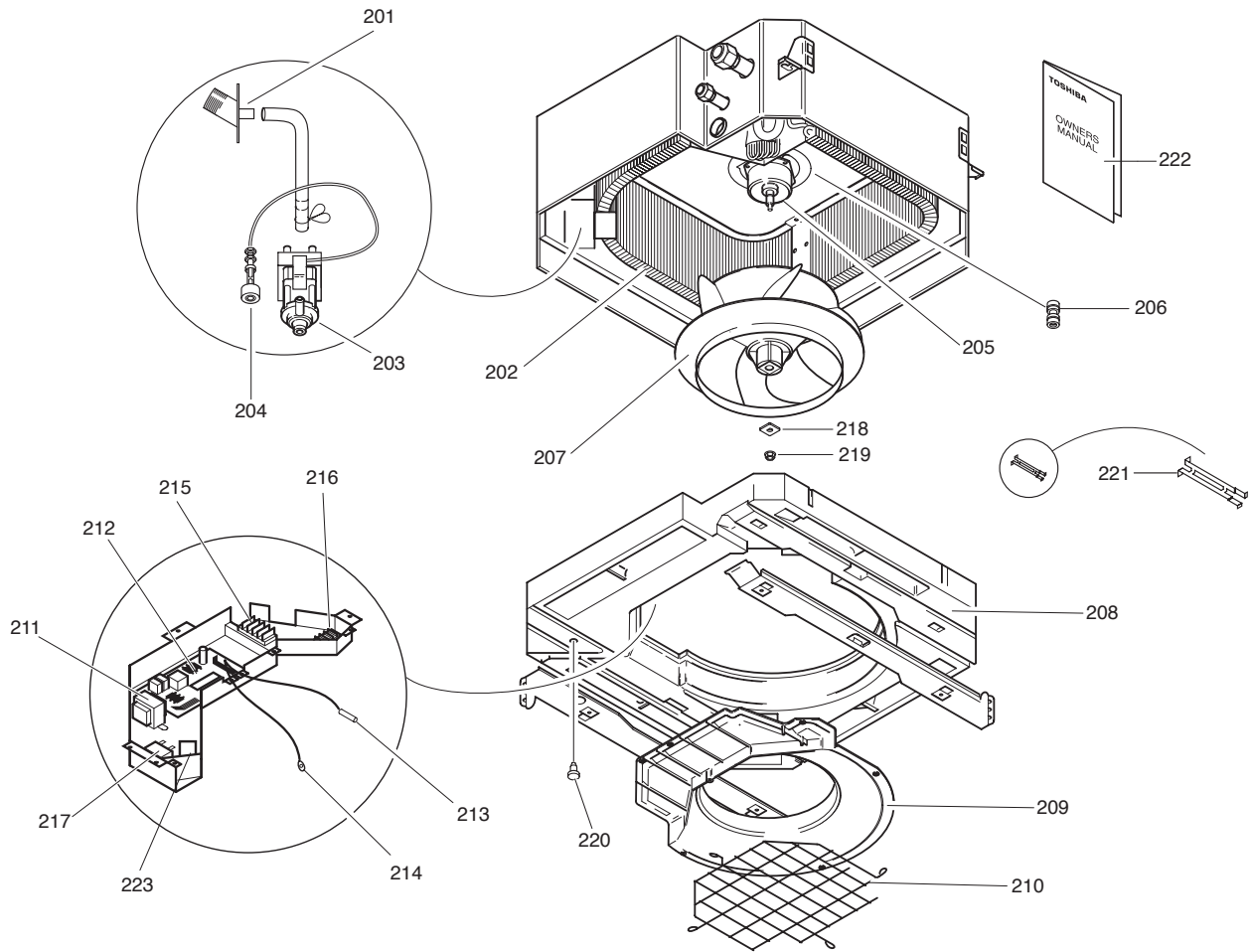
7.4 Indoor Unit RAV-134TU-PE RAV-164TU-PE



Ref No.	Part No.	Description	Model
201	43A22001	Casing Assembly	All
202	43020288	Fan	All
203	43151217	Float Switch	All
204	43A70003	Pump Assembly	All
205	43020253	Bearing	All
206	43071019	Drain Connection	All
207	43070164	Drain Hose	All
208	43A60002	Terminal ABC	All
209	43A60001	Terminal 123	All
210	43A21014	Fan Motor	All
211	43A50006	Sensor Holder	All
212	43A22002	Casing Outlet	All
213	43A44043	Refrigeration Assembly	RAV-134TU-PE
213	43A44044	Refrigeration Assembly	RAV-164TU-PE
214	43039240	Canoe Clip	All
215	43A72001	Drain Pan	All
216	43A88011	Owner's Manual	All
217	43A69008	Interface PC Board	All
218	43155100	Capacitor, Metal Film	All
219	43A69005	PC Board	All
220	43A58002	Transformer	All
221	43A50004	Sensor - Heat Exchanger (TC)	All
222	43150118	Sensor - Room Temperature (TA)	All
223	43154141	Relay - LY2F-L	All

7. EXPLODED VIEWS AND PARTS LISTS

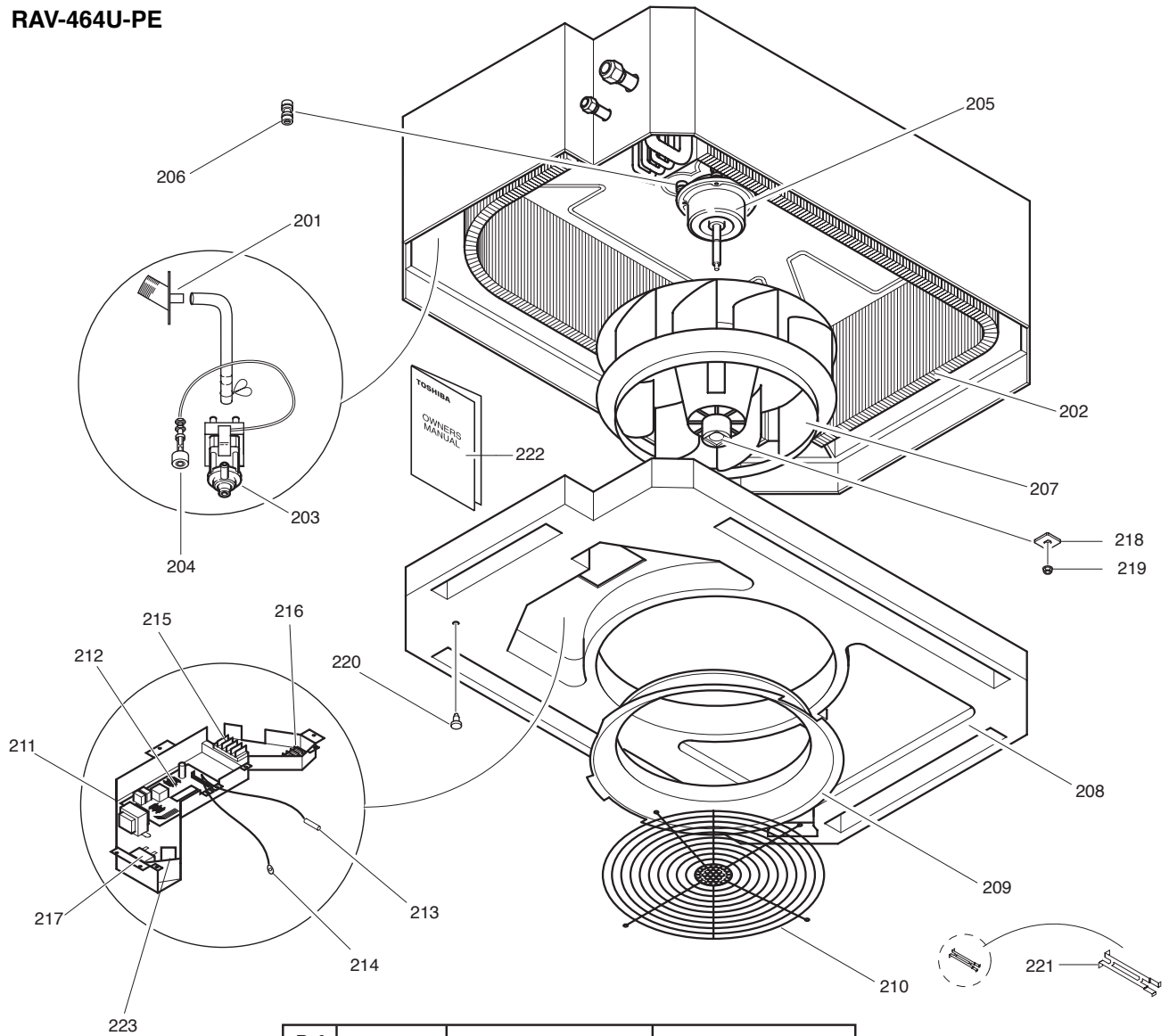
7.5 Indoor Unit RAV-164U-PE RAV-264U-PE



Ref No.	Part No.	Description	Model
201	43A70005	Drain Hose Assembly	All
202	43A44033	Refrigeration Assembly	RAV-164U-PE
202	43A44034	Refrigeration Assembly	RAV-264U-PE
203	43A70006	Drain Pump	All
204	43A51002	Float Switch	All
205	43A21018	Fan Motor	All
206	43A11004	Rubber Insulation	All
207	43A20001	Centrifugal Fan	All
208	43A72006	Drain Pan Assembly	All
209	43A22003	Bellmouth	All
210	43A19004	Fan Guard	All
211	43A58002	Transformer	All
212	43A69005	PC Board	All
213	43A50007	Sensor - Heat Exchanger (TC)	All
214	43150118	Sensor - Room Temp. (TA)	All
215	43A60001	Terminal 123	All
216	43A60002	Terminal ABC	All
217	43155100	MF Capacitor	RAV-164U-PE
217	43A55002	MF Capacitor	RAV-264U-PE
218	43097166	Washer	All
219	43A97002	Fan Washer	All
220	43A72008	Plug	All
221	43107215	Sensor Holder	All
222	43A88011	Owner's Manual	All
223	43154141	Relay - LY2F-L	All

7. EXPLODED VIEWS AND PARTS LISTS

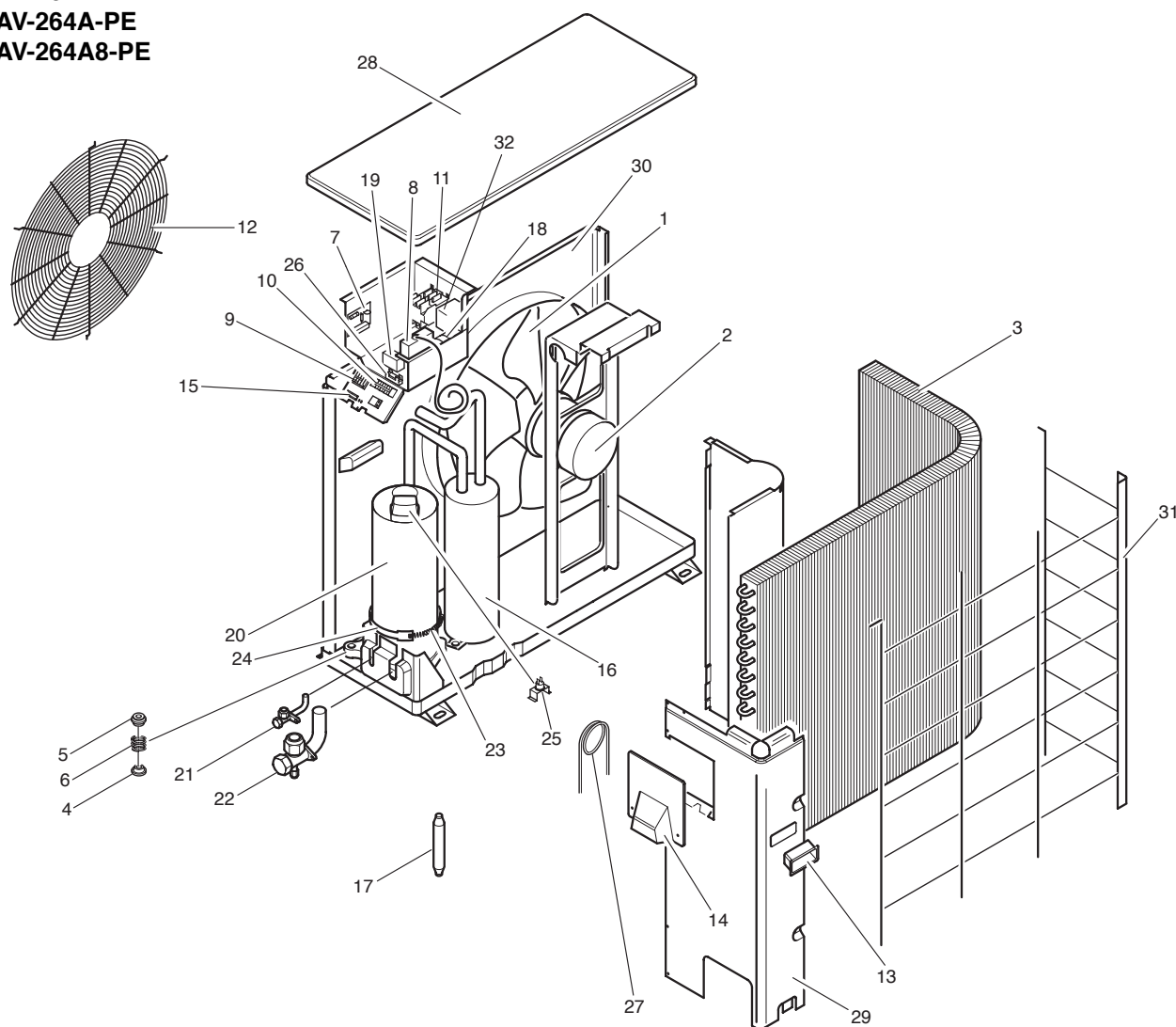
7.6 Indoor Unit RAV-364U-PE RAV-464U-PE



Ref No.	Part No.	Description	Model
201	43A70005	Drain Hose Assembly	All
202	43A44035	Refrigeration Assembly	RAV-364U-PE
202	43A44036	Refrigeration Assembly	RAV-464U-PE
203	43A70006	Drain Pump	All
204	43A51002	Float Switch	All
205	43A21019	Fan Motor	All
206	43A11005	Rubber Insulation	All
207	43A20002	Centrifugal Fan	All
208	43A72007	Drain Pan Assembly	All
209	43A22004	Bellmouth	All
210	43A19005	Fan Guard	All
211	43A58002	Transformer	All
212	43A69005	PC Board	All
213	43A50007	Sensor - Heat Exchanger	All
214	43150118	Sensor - Room Temp.	All
215	43A60001	Terminal 123	All
216	43A60002	Terminal ABC	All
217	43155138	MF Capacitor	RAV-364U-PE
217	43155120	MF Capacitor	RAV-464U-PE
218	43097166	Washer	All
219	43A97002	Fan Washer	All
220	43A72008	Plug	All
221	43107215	Sensor Holder	All
222	43A88011	Owner's Manual	All
223	43154141	Relay - LY2F-L	All

7. EXPLODED VIEWS AND PARTS LISTS

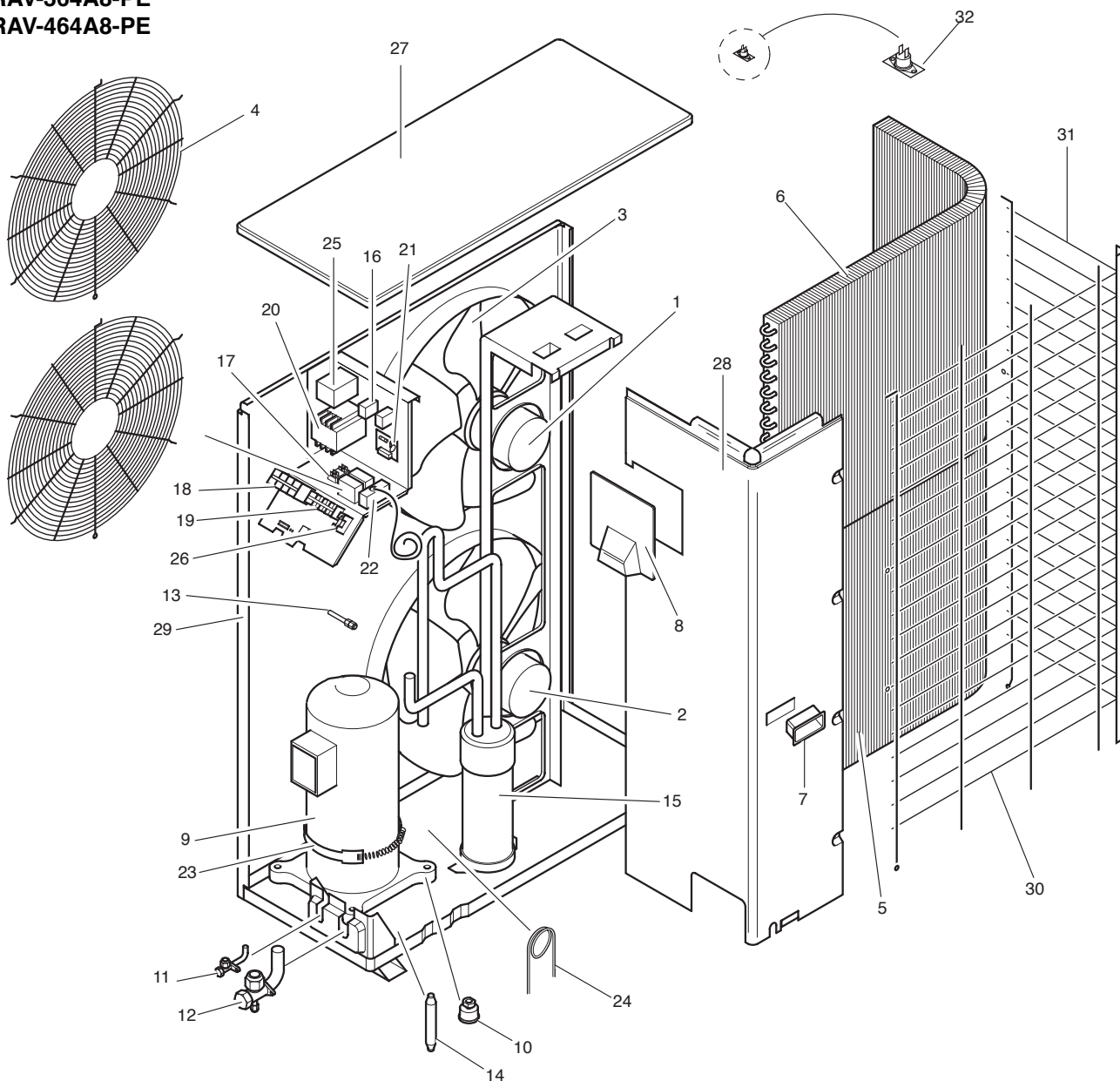
7.7 Outdoor Unit RAV-134A-PE RAV-164A-PE RAV-264A-PE RAV-264A8-PE



Ref No.	Part No.	Description	Model	Ref No.	Part No.	Description	Model
1	43120156	Propeller Fan	All	19	43155080	MF Capacitor – Fan	All
2	43A21012	Fan Motor	RAV-134/164A-PE	20	43A41506	Comp – PG330X3F-4LS	RAV-134A-PE
2	43A21011	Fan Motor	RAV-264A/A8-PE	20	43A41507	Comp – PG350X3F-4LS	RAV-164A-PE
3	43A43016	Condenser	RAV-134/164A-PE	20	43A41508	Comp – PG460X3F-4MS	RAV-264A-PE
3	43A43017	Condenser	RAV-264A/A8-PE	20	43A41509	Comp – YG460X3F-MS	RAV-264A8-PE
4	43049132	Base Spring, B	All	21	43A46013	Packed Valve (6.35mm)	RAV-134/164A-PE
5	43149212	Base Spring, A	All	21	43146415	Packed Valve (9.5mm)	RAV-264A/A8-PE
6	43149198	Spring Buffer	All	22	43146406	Packed Valve (12.7mm)	RAV-134/164A-PE
7	43169584	Surge Absorber	All	22	43146417	Packed Valve (15.9mm)	RAV-264A/A8-PE
8	43A49003	Pressure Switch (2 stage)	All	23	43193063	Spring	All
9	43A60003	Terminal Block, 2P	RAV-134/164A-PE	24	43157167	Heater, Crankcase	All
9	43A60004	Terminal Block, 2P	RAV-264A-PE	25	43050277	Thermostat, Bi-metal (comp)	RAV-264A8-PE
9	43A60005	Terminal Block, 4P	RAV-264A8-PE	26	43A60006	Fuse T5A	All
10	43A60001	Terminal Block, 4P	All	27	43A47041	Capi Form	RAV-134/164A-PE
11	43152334	Magnetic Contactor	RAV-134/164/264A-PE	27	43A47040	Capi Form	RAV-264A/A8-PE
11	43152345	Magnetic Contactor	RAV-264A8-PE	28	43A91016	ASM Roof Plate	All
12	43A19001	Fan Guard	All	29	43A91019	ASM Side Cabinet	RAV-134/164A-PE
13	43119368	Hanger	All	29	43A91022	ASM Side Cabinet	RAV-264A/A8-PE
14	43162027	Cover, Electrical Parts	All	30	43A91017	ASM Air-Out Cabinet	RAV-134/164A-PE
15	43A63001	Cord Clamp	All	30	43A91018	ASM Air-Out Cabinet	RAV-264A/A8-PE
16	43148105	Accumulator	All	31	43A91023	Fin-Guard (back)	RAV-134/164A-PE
17	43A45001	Dryer	All	31	43A91024	Fin-Guard (back)	RAV-264A/A8-PE
18	43155115	MF Capacitor – Compressor	RAV-134/164A-PE	32	43154148	Reverse Phase Protector	RAV-264A8-PE
18	43055379	MF Capacitor – Compressor	RAV-264A-PE				

7. EXPLODED VIEWS AND PARTS LISTS

7.8 Outdoor Unit RAV-364A8-PE RAV-464A8-PE

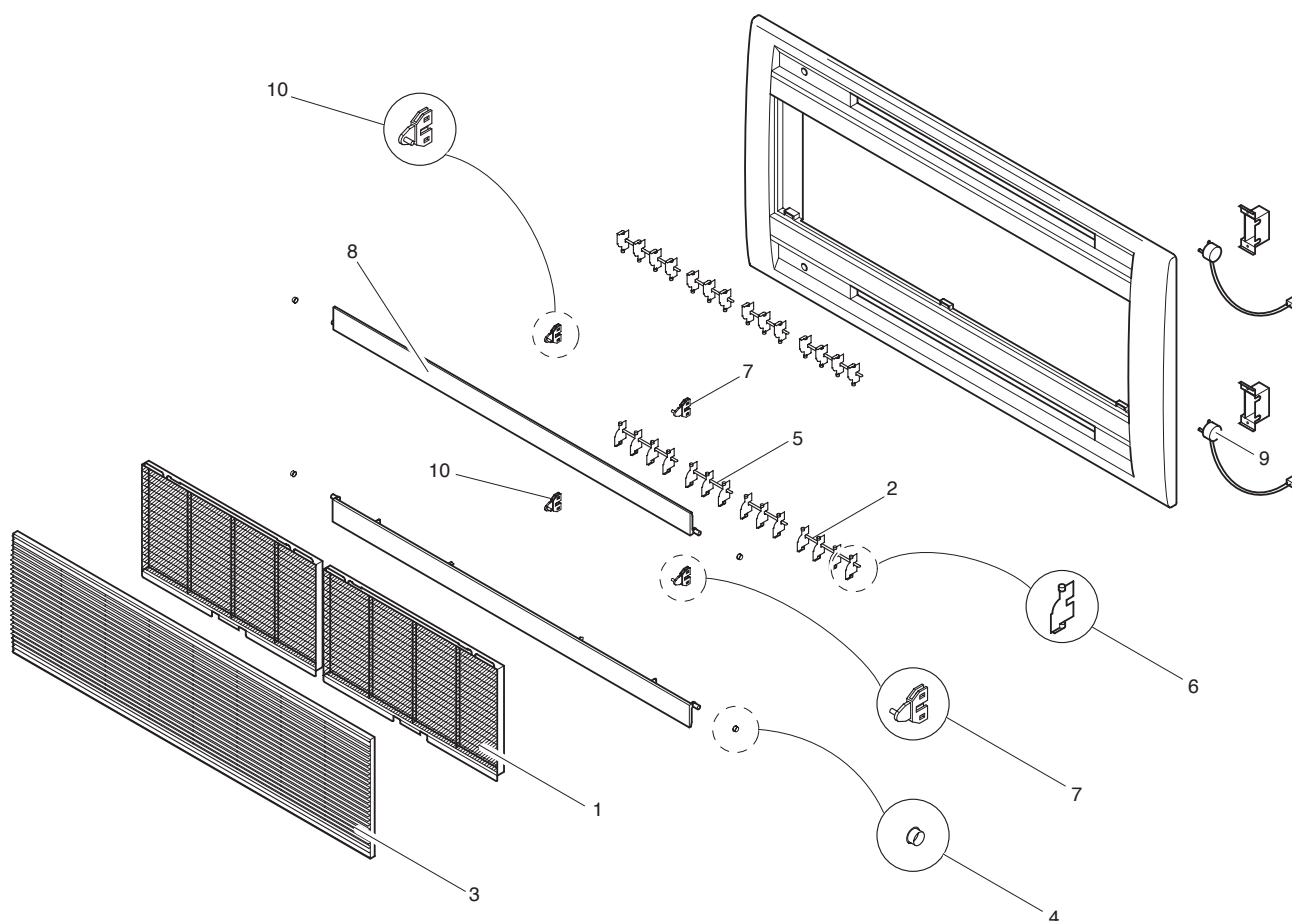


Ref No.	Part No.	Description	Model
1	43A21011	Fan Motor AC230V, 50Hz 63W	All
2	43A21012	Fan Motor AC230V, 50Hz 39W	All
3	43120156	Propeller Fan	All
4	43A19001	Fan Guard	All
5	43A43012	Condenser Lower	RAV-464A8-PE
5	43A43014	Condenser Lower	RAV-364A8-PE
6	43A43013	Condenser Upper	RAV-464A8-PE
6	43A43015	Condenser Upper	RAV-364A8-PE
7	43119368	Hanger, Plastic	All
8	43162027	Cover, Electrical Parts	All
9	43A41503	Compressor, ZR61KCE-TFD-230	RAV-464A8-PE
9	43A41502	Compressor, ZR49KCE-TFD-230	RAV-364A8-PE
10	43A42001	Compressor Boot	All
11	43146415	Packed Valve, (9.5mm)	All
12	43146416	Packed Valve, (19mm)	All
13	43147321	Check Joint	All
14	43A45001	Dryer, XH10	RAV-364A8-PE
14	43A45002	Dryer, XH10	RAV-464A8-PE
15	43148096	Accumulator, 1.6Ltr	All
16	43155080	Capacitor, Plastic Film, 4.0μF, 400V	All

Ref No.	Part No.	Description	Model
17	43060479	Terminal Block, 4P	All
18	43A60005	Terminal, 4P	All
19	43A60001	Terminal, 4P	All
20	43A53004	Magnetic Contactor, FC-2S	All
21	43169584	Surge Protector	All
22	43A49002	Pressure Switch (2 Stage)	All
23	43157167	Crankcase Heater, AC240V, 28W	All
24	43A47038	Capillary Assembly	RAV-464A8-PE
24	43A47039	Capillary Assembly	RAV-364A8-PE
25	43154148	Reverse Phase Protector, STR-4AD	All
26	43A60006	Fuse T5A	All
27	43A91027	ASM Roof Plate	All
28	43A91037	ASM Side Cabi	RAV-464A8-PE
28	43A91029	ASM Side Cabi	RAV-364A8-PE
29	43A91028	Air Out Cabi	All
30	43A91036	Fin Guard – Back	RAV-464A8-PE
30	43A91031	Fin Guard – Back	RAV-364A8-PE
31	43A91030	Fin Guard – Side	All
32	43150112	Bimetal – Thermo	All

7. EXPLODED VIEWS AND PARTS LISTS

7.9 Ceiling Panel RBC-U133PG(W)-PE

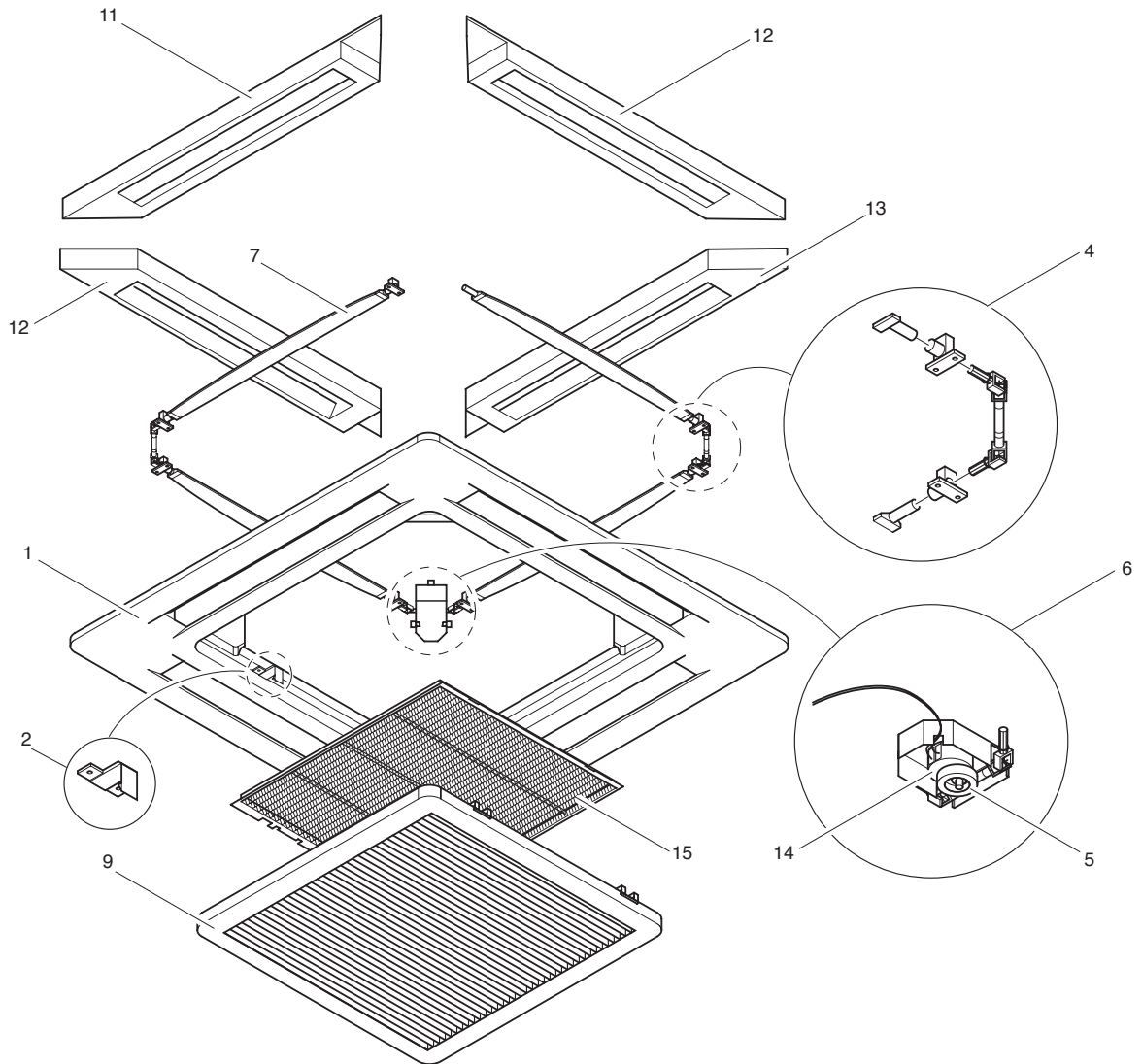


Ref No.	Part No.	Description
1	43080392	Filter
2	43007108	Plate connect (long)
3	43009504	ASM-Grille-Out
4	43007107	Bushing
5	43007109	Plate connect (short)

Ref No.	Part No.	Description
6	43009503	Grille-L-R
7	43007124	Support plate
8	43009499	ASM-Grille-Out
9	43A26001	ASM-Motor
10	43007125	Support plate

7. EXPLODED VIEWS AND PARTS LISTS

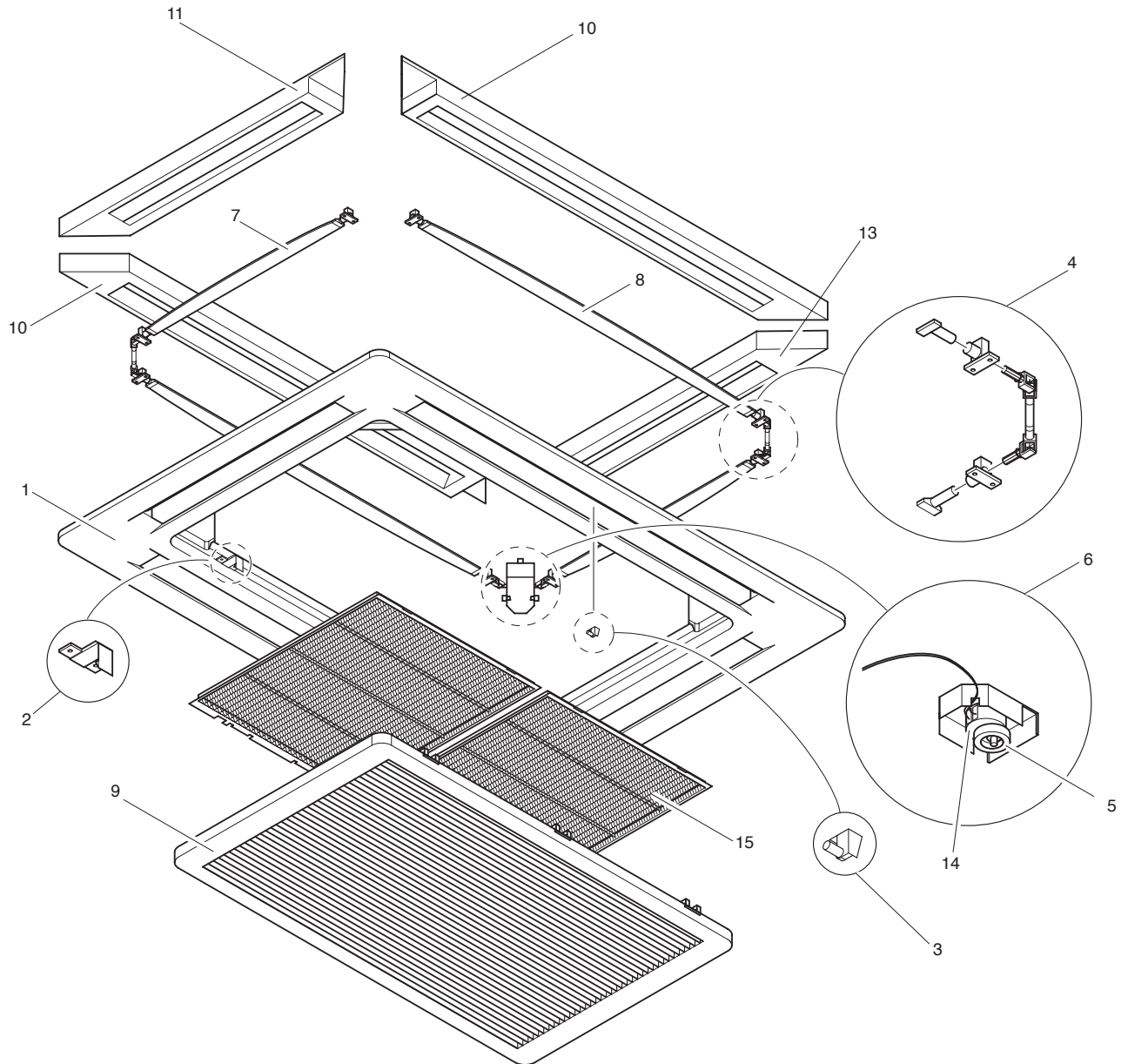
7.10 Ceiling Panel RBC-U264PG(W)-E



Ref No.	Part No.	Description
1	43400658	Panel
2	43407072	Grille Catch
4	43407085	Joint Kit
5	43407091	Cam
6	43107249	Motor Kit Assembly
7	43409110	Louver-(Small)
9	43A09009	Grille – Air Inlet
11	43411007	Cushion Air Outlet B
12	43411008	Cushion Air Outlet C
13	43411009	Cushion Air Outlet D
14	43121671	Geared Motor
15	41480545	Air Filter

7. EXPLODED VIEWS AND PARTS LISTS

7.11 Ceiling Panel RBC-U464PG(W)-E



Ref No.	Part No.	Description
1	43400662	Panel
2	43407072	Grille Catch
3	43407076	Grille, Louvre M
4	43407085	Joint Kit
5	43402091	Cam
6	43107249	Motor Kit Assembly
7	43409110	Louver – (Small)
8	43409114	Louver – (Large)
9	43A09010	Grille Air Inlet
10	43411006	Cushion Air Outlet A
11	43411007	Cushion Air Outlet B
13	43411009	Cushion Air Outlet D
14	43121671	Geared Motor
15	41480546	Air Filter

TOSHIBA

AIR CONDITIONING

PORSHAM CLOSE, BELLIVER INDUSTRIAL ESTATE, PLYMOUTH PL6 7DB UK

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