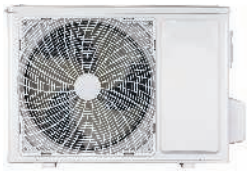
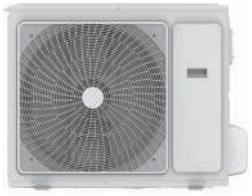
AIR CONDITIONER

Wall mounted type

REFRIGERANT R32
INVERTER

DESIGN & TECHNICAL MANUAL

INDOOR				
	ASKA09KPBA ASKA12KPBA	ASKA18KPBA	ASKA24KPBA	ASKA30KPBA ASKA36KPBA
OUTDOOR				
	AOKA09KPBA AOKA12KPBA	AOKA18KPBA	AOKA24KPBA	AOKA30KPBA AOKA36KPBA

DR_AS201EX_01
2023.05.31

Notices:

- Product specifications and design are subject to change without notice for future improvement.
- For further details, please check with our authorized dealer.

CONTENTS

CONTENTS (continued)

Part 1. INDOOR UNIT

WALL MOUNTED TYPE:

ASKA09KPBA
ASKA12KPBA
ASKA18KPBA
ASKA24KPBA
ASKA30KPBA
ASKA36KPBA

WALL MOUNTED
ASKA09-36KPBA

1. Specifications

Type					Wall mounted	
					Inverter, Heat pump	
Model name					ASKA09KPBA	ASKA12KPBA
Power supply intake					Outdoor unit	
System power supply	Voltage			V	220	
	Frequency			Hz	60	
	Available voltage range			V	198—242	
Indoor unit power supply (from outdoor unit)				V	220	
Capacity	Cooling	Rated		kW	2.637	3.517
				Btu/h	9,000	12,000
		Min.—Max.		kW	1.82—2.95	2.10—3.91
				Btu/h	6,210—10,065	7,165—13,341
	Heating	Rated		kW	2.637	3.517
				Btu/h	9,000	12,000
		Min.—Max.		kW	1.85—2.97	2.20—3.98
				Btu/h	6,312—10,134	7,506—13,580
Input power	Cooling	Rated		kW	0.83	1.10
		Min.—Max.			0.39—1.08	0.58—1.52
	Heating	Rated			0.72	0.97
		Min.—Max.			0.38—0.97	0.45—1.33
Current	Cooling	Rated		A	3.9	5.2
	Heating				3.4	4.6
EER	Cooling			kW/kW	2.90	3.00
COP	Heating				3.66	3.62
Sensible capacity	Cooling			kW	TBD	TBD
Power factor	Cooling			%	95	
	Heating				95	
Moisture removal				L/h (pints/h)	0.6 (1.1)	1.1 (1.9)
Maximum operating current*1	Cooling			A	5.0	7.0
	Heating				5.0	7.0
Fan	Airflow rate	Cooling	Higher	m^3/h	590	
			High		550	
			Medium		480	
			Low		380	
			Lower		350	
		Heating	Higher		600	
			High		560	
			Medium		490	
			Low		390	
			Lower		360	
	Type × Qty				Crossflow fan × 1	
	Motor output			W	14	25
Sound pressure level*2	Cooling		Higher	dB (A)	42	43
			High		39	40
			Medium		36	37
			Low		34	35
			Lower		31	33
	Heating		Higher		42	43
			High		39	40
			Medium		36	37
			Low		34	35
			Lower		31	33
Heat exchanger	Dimensions (H × W × D)			mm	266 × 550 × 27.2	294 × 550 × 27.2
	Fin pitch				1.2	1.4
	Rows × Stages				2 × 14	
	Pipe type				Copper tube	
	Fin type				Aluminum	
Enclosure	Material				Polystyrene	
	Color				White	
Dimensions (H × W × D)	Net			mm	270 × 796 × 213	
	Gross				335 × 870 × 265	
Weight	Net			kg	7.5	8.0
	Gross				9.5	10.0
Connection pipe	Size	Liquid		mm (in)	Ø6.35 (Ø1/4)	
		Gas			Ø9.52 (Ø3/8)	
	Method				Flare	
Drain hose	Material				Polyethylene	
	Tip diameter			mm	Ø15.4 (I.D.), Ø17.6 to Ø30.0 (O.D.)	
Operation range	Cooling			°C	16 to 30	
				%RH	80 or less	
	Heating			°C	16 to 30	
Remote controller type					Wireless	

NOTES:

- Specifications are based on the following conditions:
  - Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
  - Heating: Indoor temperature of 21°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.
  - Pipe length: 5 m, Height difference: 0 m. (Between outdoor unit and indoor unit.)
- Protective function might work when using it outside the operation range.
- *1: Maximum operating current is the total current of the indoor unit and the outdoor unit.
- *2: Sound pressure level:
  - Measured values in manufacturer's anechoic chamber.
  - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.

WALL MOUNTED
ASKA09-36KPBA

Type					Wall mounted	
					Inverter, Heat pump	
Model name					**ASKA18KPBA**	**ASKA24KPBA**
Power supply intake					Outdoor unit	
System power supply	Voltage			V	220	
	Frequency			Hz	60	
	Available voltage range			V	198—242	
Indoor unit power supply (from outdoor unit)				V	220	
Capacity	Cooling	Rated		kW	5.274	7.032
				Btu/h	18,000	24,000
		Min.—Max.		kW	3.51—5.61	3.91—7.39
				Btu/h	11,976—19,141	13,341—25,215
	Heating	Rated		kW	5.400	7.032
				Btu/h	18,430	24,000
		Min.—Max.		kW	3.52—5.62	3.80—7.80
				Btu/h	12,010—19,175	12,966—26,614
Input power	Cooling	Rated		kW	1.625	2.250
		Min.—Max.			0.75—1.93	1.29—2.67
	Heating	Rated			1.480	1.950
		Min.—Max.			0.73—1.91	1.18—2.56
Current	Cooling	Rated		A	7.6	10.2
	Heating				6.9	8.9
EER	Cooling			kW/kW	3.20	3.02
COP	Heating				3.64	3.61
Sensible capacity	Cooling			kW	TBD	TBD
Power factor	Cooling			%	97	96
	Heating				97	96
Moisture removal				L/h (pints/h)	1.8 (3.2)	2.2 (3.9)
Maximum operating current*1	Cooling			A	12.7	14.5
	Heating				12.7	13.6
Fan	Airflow rate	Cooling	Higher	m^3/h	1,000	1,200
			High		950	1,150
			Medium		850	1,000
			Low		780	920
			Lower		660	850
		Heating	Higher		1,100	1,200
			High		980	1,150
			Medium		900	1,000
			Low		800	920
			Lower		680	850
	Type × Qty				Crossflow fan × 1	
	Motor output			W	35	50
Sound pressure level*2	Cooling		Higher	dB (A)	46	50
			High		44	48
			Medium		41	47
			Low		39	45
			Lower		36	41
	Heating		Higher		46	50
			High		44	47
			Medium		41	45
			Low		39	42
			Lower		35	39
Heat exchanger	Dimensions (H × W × D)			mm	378 × 705 × 27.2	378 × 842 × 27.2
	Fin pitch				1.4	
	Rows × Stages				2 × 18	
	Pipe type				Copper tube	
	Fin type				Aluminum	
Enclosure	Material				Polystyrene	
	Color				White	
Dimensions (H × W × D)	Net			mm	310 × 968 × 235	315 × 1,140 × 235
	Gross				380 × 1,022 × 310	380 × 1,195 × 310
Weight	Net			kg	12.0	14.0
	Gross				14.0	16.0
Connection pipe	Size	Liquid		mm (in)	Ø6.35 (Ø1/4)	
		Gas			Ø12.70 (Ø1/2)	Ø15.88 (Ø5/8)
	Method				Flare	
Drain hose	Material				Polyethylene	
	Tip diameter			mm	Ø15.4 (I.D.), Ø17.6 to Ø30.0 (O.D.)	
Operation range	Cooling			°C	16 to 30	
				%RH	80 or less	
	Heating			°C	16 to 30	
Remote controller type					Wireless	

NOTES:

- Specifications are based on the following conditions:
  - Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
  - Heating: Indoor temperature of 21°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.
  - Pipe length: 5 m, Height difference: 0 m. (Between outdoor unit and indoor unit.)
- Protective function might work when using it outside the operation range.
- *1: Maximum operating current is the total current of the indoor unit and the outdoor unit.
- *2: Sound pressure level:
  - Measured values in manufacturer's anechoic chamber.
  - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.

WALL MOUNTED
ASKA09-36KPBA

Type					Wall mounted	
					Inverter, Heat pump	
Model name					**ASKA30KPBA**	**ASKA36KPBA**
Power supply intake					Outdoor unit	
System power supply	Voltage			V	220	
	Frequency			Hz	60	
	Available voltage range			V	198—242	
Indoor unit power supply (from outdoor unit)				V	220	
Capacity	Cooling	Rated		kW	8.790	10.548
				Btu/h	30,000	36,000
		Min.—Max.		kW	4.66—9.18	4.53—10.70
				Btu/h	15,900—31,322	15,456—36,508
	Heating	Rated		kW	8.79	10.548
				Btu/h	30,000	36,000
		Min.—Max.		kW	4.39—10.20	4.98—11.12
				Btu/h	14,979—34,802	16,992—37,941
Input power	Cooling	Rated		kW	2.60	3.38
		Min.—Max.			1.51—2.91	1.64—3.91
	Heating	Rated			2.44	3.26
		Min.—Max.			1.48—2.88	1.58—3.80
Current	Cooling	Rated		A	12.2	15.8
	Heating				11.5	15.3
EER	Cooling			kW/kW	3.40	3.05
COP	Heating				3.60	3.24
Sensible capacity	Cooling			kW	TBD	TBD
Power factor	Cooling			%	96	
	Heating				97	96
Moisture removal				L/h (pints/h)	2.6 (4.6)	3.0 (5.3)
Maximum operating current*1	Cooling			A	15.0	18.2
	Heating				15.5	17.7
Fan	Airflow rate	Cooling	Higher	m^3/h	1,800	
			High		1,700	
			Medium		1,550	
			Low		1,380	
			Lower		1,100	
		Heating	Higher		1,850	1,860
			High		1,700	1,750
			Medium		1,500	1,550
			Low		1,400	1,450
			Lower		1,150	1,200
	Type × Qty				Crossflow fan × 1	
	Motor output			W	70	
Sound pressure level*2	Cooling		Higher	dB (A)	53	
			High		51	
			Medium		50	
			Low		48	
			Lower		44	
	Heating		Higher		53	
			High		51	
			Medium		50	
			Low		48	
			Lower		44	
Heat exchanger	Dimensions (H × W × D)			mm	420 × 985 × 27.2	Main: 420 × 985 × 27.2 Sub: 168 × 985 × 13.6
	Fin pitch				1.4	Main: 1.4 Sub: 1.4
	Rows × Stages				2 × 20	Main: 2 × 20 Sub: 1 × 8
	Pipe type				Copper tube	
	Fin type				Aluminum	
Enclosure	Material				Polystyrene	
	Color				White	
Dimensions (H × W × D)	Net			mm	345 × 1,297 × 256	
	Gross				435 × 1,385 × 325	
Weight	Net			kg	18.0	
	Gross				21.5	22.0
Connection pipe	Size	Liquid		mm (in)	Ø9.52 (Ø3/8)	
		Gas			Ø15.88 (Ø5/8)	
	Method				Flare	
Drain hose	Material				Polyethylene	
	Tip diameter			mm	Ø15.4 (I.D.), Ø17.6 to Ø30.0 (O.D.)	
Operation range	Cooling			°C	16 to 30	
				%RH	80 or less	
	Heating			°C	16 to 30	
Remote controller type					Wireless	

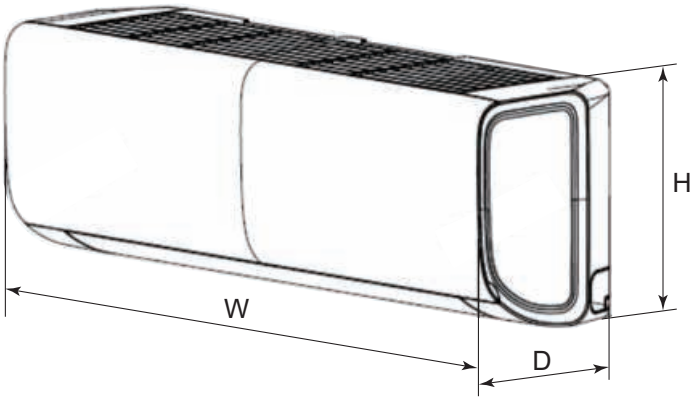
NOTES:

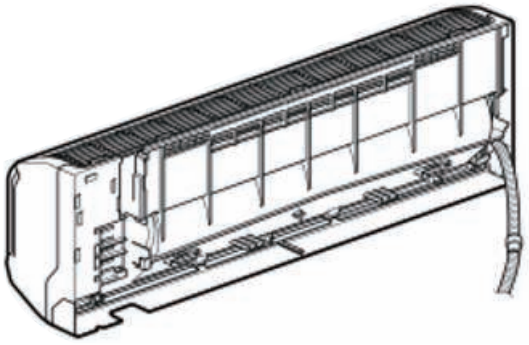
- Specifications are based on the following conditions:
  - Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
  - Heating: Indoor temperature of 21°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.
  - Pipe length: 5 m, Height difference: 0 m. (Between outdoor unit and indoor unit.)
- Protective function might work when using it outside the operation range.
- *1: Maximum operating current is the total current of the indoor unit and the outdoor unit.
- *2: Sound pressure level:
  - Measured values in manufacturer's anechoic chamber.
  - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.

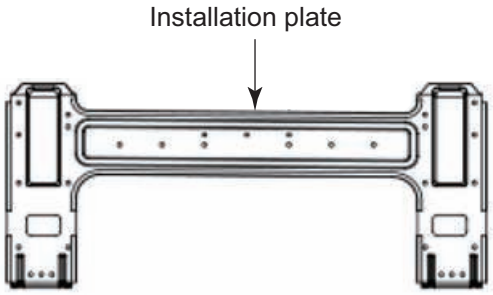
WALL MOUNTED
ASKA09-36KPBA

2. Dimensions

2-1. Models: ASKA09KPBA, ASKA12KPBA, ASKA18KPBA, ASKA24KPBA, ASKA30KPBA, and ASKA36KPBA







Model name	W	H	D
	(Unit: mm)		
ASKA09KPBA	796	270	213
ASKA12KPBA	796	270	213
ASKA18KPBA	968	310	235
ASKA24KPBA	1140	315	235
ASKA30KPBA	1297	345	256
ASKA36KPBA	1297	345	256

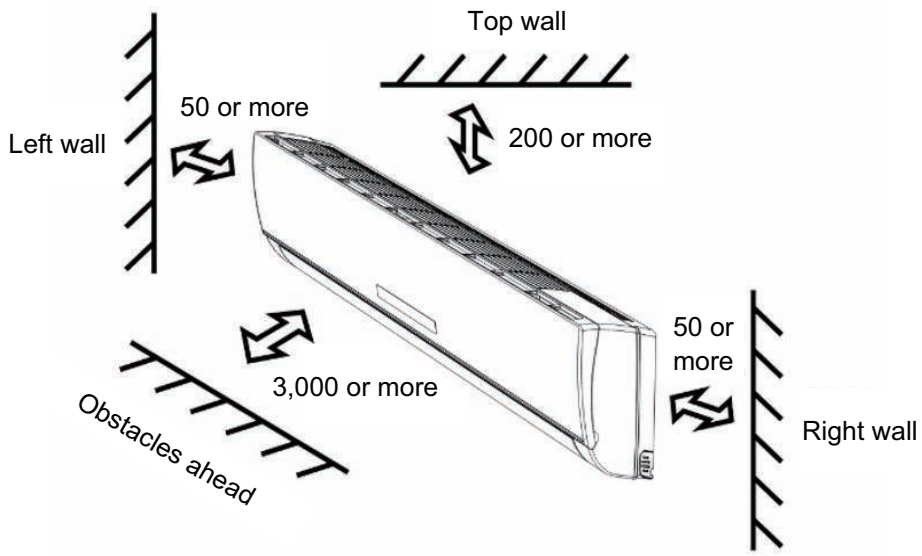
NOTE: The detailed shape of the indoor unit may vary by the model.

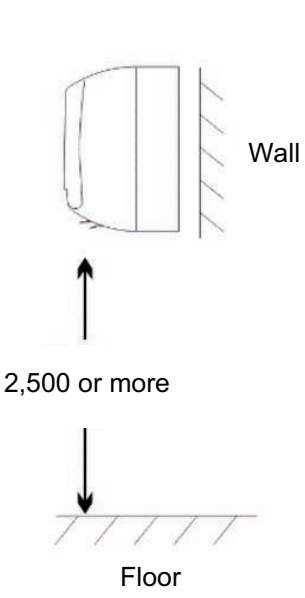
WALL MOUNTED
ASKA09-36KPBA

2-2. Installation space requirement

Provide sufficient installation space for product safety.

Unit: mm

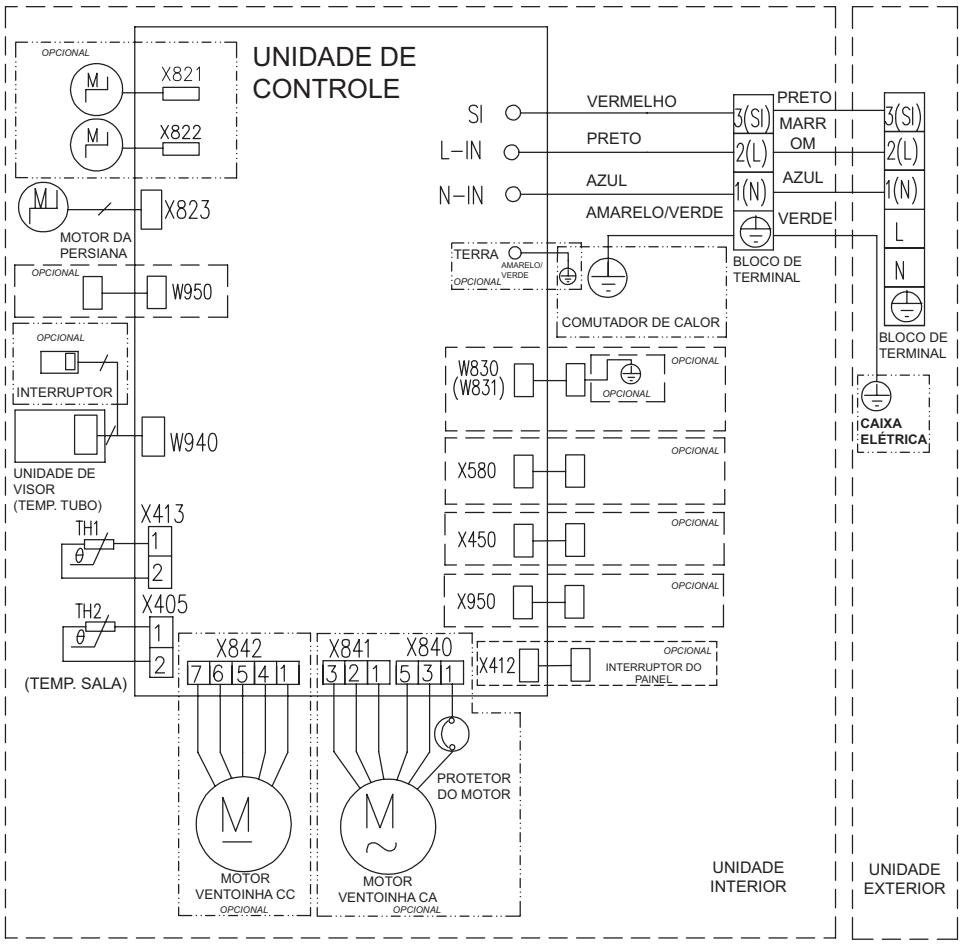




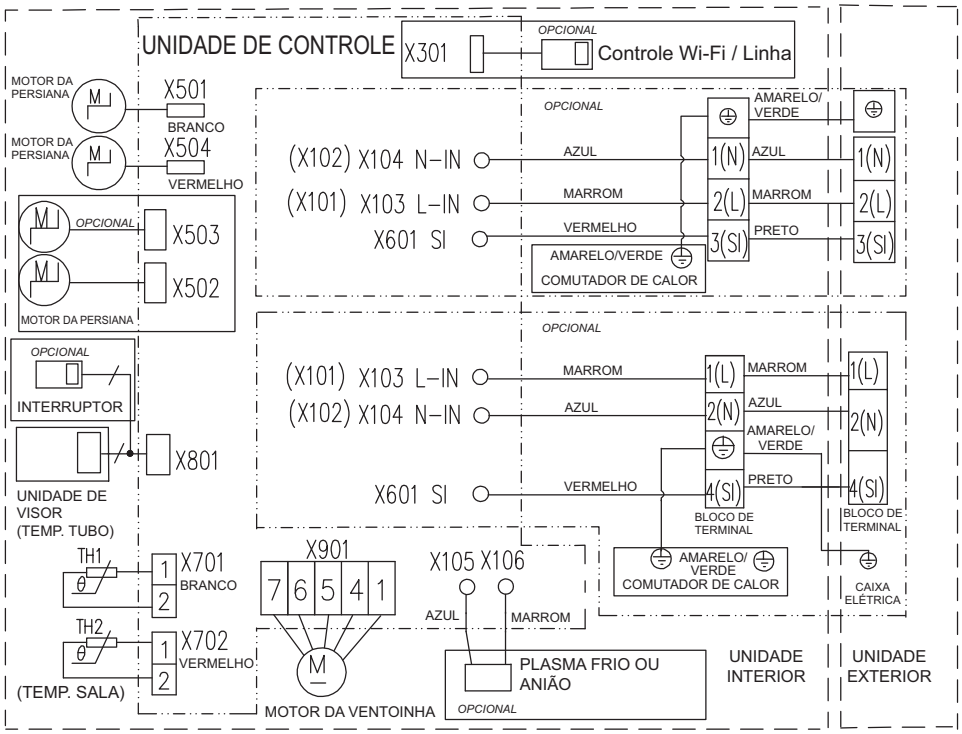
WALL MOUNTED
ASKA09-36KPBA

3. Wiring diagrams

3-1. Models: ASKA09KPBA, ASKA12KPBA, ASKA18KPBA, and ASKA24KPBA



3-2. Models: ASKA30KPBA and ASKA36KPBA



WALL MOUNTED
ASKA09-36KPBA

4. Remote controller

4-1. Wireless remote controller

1 MODE
Press this button to select the operation mode.

3 SLEEP
Used to set or cancel Sleep Mode operation.

6 SUPER
Used to start or stop the fast cooling/heating. (Fast cooling operates at high fan speed with 16℃(61°F) set temp automatically ; Fast heating operates at auto fan speed with 30℃(86°F) set temp automatically)

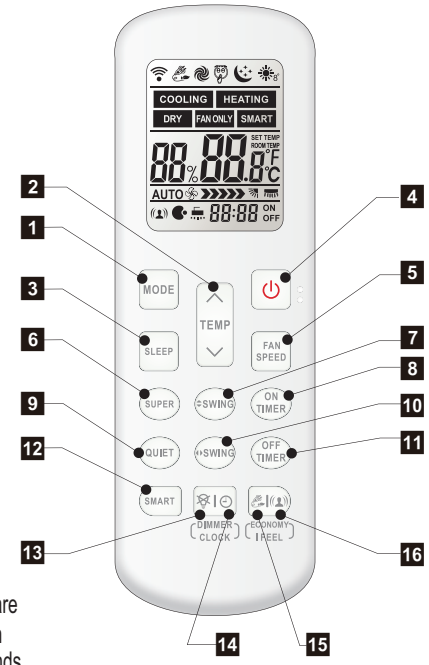
8 ON TIMER
Used to set or cancel the timer operation.

9 QUIET
Used to set or cancel Quiet Mode operation.

11 OFF TIMER
Used to set or cancel the timer operation.

12 SMART(invalid for multi system)
Used to enter fuzzy logic operation directly when the unit is on .
When the Air conditioner and Remote controller are in standby, and the mode of remote controller is in Cooling or Dry, press this button for about 5 seconds to enter the auto-clean mode and then the indicator "" will display on LCD . Press SMART or POWER or MODE button will escape from auto-clean mode, and then the indicator "" will disappeared, (After the clean process finish, the air conditioner will return to Cooling or Dry as preset, while the indicator" " on remote controller will display for about 30 mins)

13 DIMMER
When you press this button, all the display of indoor unit will be closed. Press any button to resume display.



14 CLOCK
Used to set the current time.

15 ECONOMY
Used to set or cancel Economy Mode operation.

2 + **7** 8°C HEAT(optional)
Used to start or stop 8°C HEAT mode.

2 TEMP
Used to adjust the room temperature and the timer, also real time.

4 POWER
The appliance will be started when it is energized or will be stopped when it is in operation, if you press this button.

5 FAN SPEED
Used to select fan speed in sequence auto, higher, high, medium, low and lower.

7 SWING
Used to stop or start vertical adjustment louver swinging and set the desired up/ down airflow direction.

10 SWING
Used to stop or start Horizontal adjustment louver swinging and set the desired left/right airflow direction.

16 IFEEL
Press to set IFEEL Mode operation. In IFEEL mode, the Air Conditioner operates basis temperature sensor fitted in remote instead of machine, Advice to use IFEEL mode and the remote put where the indoor unit receive signal easily. Press this button above 5 seconds, start or stop IFEEL mode.

Indication symbols on LCD:

COOLING Cooling indicator	DRY Dry indicator	FAN ONLY Fan only indicator	HEATING Heating indicator	SMART Smart indicator
Auto Auto fan speed	Higher fan speed	High fan speed	Medium fan speed	Low fan speed
Lower fan speed	Quiet indicator	Economy indicator	Super indicator	Sleep indicator
IFEEL	Display temperature	Display set timer		8℃ Heat indicator
Auto-clean indicator		Display current time		

WALL MOUNTED
ASKA09-36KPBA

5. Accessories

5-1. Models: ASKA09KPBA, ASKA12KPBA, ASKA18KPBA, ASKA24KPBA, ASKA30KPBA, and ASKA36KPBA

Part name	Exterior	Qty	Part name	Exterior	Qty
Use and installation instructions		1	Flare nut • For gas pipe × 2 • For liquid pipe × 2		4
Remote controller instructions		1	Screw for installations • Anchor × 6 • Screw × 6		1
Warranty card		1	Screw cap of front panel		1 (09 and 12 models)
Remote controller		1			3 (18 and 24 models)
Remote controller holder		1			4 (30 and 36 models)
Foam insulation		1	Drain joint		1
			Drain joint rubber seal		1

WALL MOUNTED
ASKA09-36KPBA

Part 2. OUTDOOR UNIT

SINGLE TYPE:

AOKA09KPBA
AOKA12KPBA
AOKA18KPBA
AOKA24KPBA
AOKA30KPBA
AOKA36KPBA

1. Specifications

Type				Inverter, Heat pump	
Model name				**AOKA09KPBA**	**AOKA12KPBA**
Power supply				220 V~ 60 Hz	
Power supply intake				Outdoor unit	
Available voltage range				198—242 V	
Starting current			A	0.9	1.1
Fan	Airflow rate	Cooling	m^3/h	1,800	
		Heating		1,800	
	Type × Qty			Propeller fan × 1	
	Motor output		W	36	20
Sound pressure level*1		Cooling	dB (A)	51	52
		Heating		51	52
Heat exchanger type		Dimensions (H × W × D)	mm	462 × 603 × 18.19	464 × 687 × 21.65
		Fin pitch		1.4	
		Rows × Stages		1 × 22	1 × 27
		Pipe type		Copper tube	
		Fin type	Type (Material)	Aluminum	
			Surface treatment	Hydrophily	
Compressor	Type			DC rotary	
	Motor output		W	925	915
Refrigerant		Type		R32	
		Charge	g	480	630
Refrigerant oil		Type		Polyolester	
		Amount	cm^3	240	
Enclosure		Material		Steel sheet	
		Color		Gray-white	
Dimensions (H × W × D)	Net		mm	482 × 660 × 240	
	Gross			530 × 780 × 315	
Weight	Net		kg	19.0	21.5
	Gross			22.0	24.5
Connection pipe	Size	Liquid	mm (in)	Ø6.35 (Ø1/4)	
		Gas		Ø9.52 (Ø3/8)	
	Method			Flare	
	Pre-charge length		m	5	
	Max. length			15	
	Max. height difference			5	
	Additional charge		g/m	20	
Operation range*2		Cooling	°C	16 to 46*3	
		Heating		-15 to 24	

NOTES:

- Specifications are based on the following conditions:
  - Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB.
  - Heating: Indoor temperature of 21°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.
  - Pipe length: 5 m, Height difference: 0 m.
- Protective function might work when using it outside the operation range.
- *1: Sound pressure level
  - Measured values in manufacturer's anechoic chamber.
  - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.
- *2: The protection circuits might activate to stop the unit's operation outside the temperature range.
- *3: Suction temperature of the outdoor unit.

OUTDOOR UNIT
AOKA09-36KPBA

OUTDOOR UNIT
AOKA09-36KPBA

Type				Inverter, Heat pump	
Model name				**AOKA18KPBA**	**AOKA24KPBA**
Power supply				220 V~ 60 Hz	
Power supply intake				Outdoor unit	
Available voltage range				198—242 V	
Starting current			A	1.9	2.4
Fan	Airflow rate	Cooling	m^3/h	2,200	3,500
		Heating		2,200	3,500
	Type × Qty			Propeller fan × 1	
	Motor output		W	36	60
Sound pressure level*1		Cooling	dB (A)	55	56
		Heating		55	56
Heat exchanger type		Dimensions (H × W × D)	mm	Main 1: 504 × 795 × 18.19 Main 2: 504 × 766 × 18.19	636 × 899 × 21.65
		Fin pitch		Main 1: 1.4 Main 2: 1.4	1.3
		Rows × Stages		Main 1: 1 × 24 Main 2: 1 × 24	1 × 37
		Pipe type		Copper tube	
		Fin type	Type (Material)	Aluminum	
			Surface treatment	Hydrophily	
Compressor	Type			DC rotary	
	Motor output		W	1,035	1,320
Refrigerant		Type		R32	
		Charge	g	1,050	1,320
Refrigerant oil		Type		Polyolester	
		Amount	cm^3	360	630
Enclosure		Material		Steel sheet	
		Color		Gray-white	
Dimensions (H × W × D)	Net		mm	540 × 780 × 260	650 × 860 × 310
	Gross			600 × 910 × 360	720 × 995 × 420
Weight	Net		kg	29.0	39.0
	Gross			32.0	46.0
Connection pipe	Size	Liquid	mm (in)	Ø6.35 (Ø1/4)	
		Gas		Ø12.70 (Ø1/2)	Ø15.88 (Ø5/8)
	Method			Flare	
	Pre-charge length		m	5	
	Max. length			15	
	Max. height difference			5	
	Additional charge		g/m	20	30
Operation range*2		Cooling	°C	16 to 46*3	
		Heating		-15 to 24	

NOTES:

- Specifications are based on the following conditions:
  - Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB.
  - Heating: Indoor temperature of 21°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.
  - Pipe length: 5 m, Height difference: 0 m.
- Protective function might work when using it outside the operation range.
- *1: Sound pressure level
  - Measured values in manufacturer's anechoic chamber.
  - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.
- *2: The protection circuits might activate to stop the unit's operation outside the temperature range.
- *3: Suction temperature of the outdoor unit.

OUTDOOR UNIT
AOKA09-36KPBA

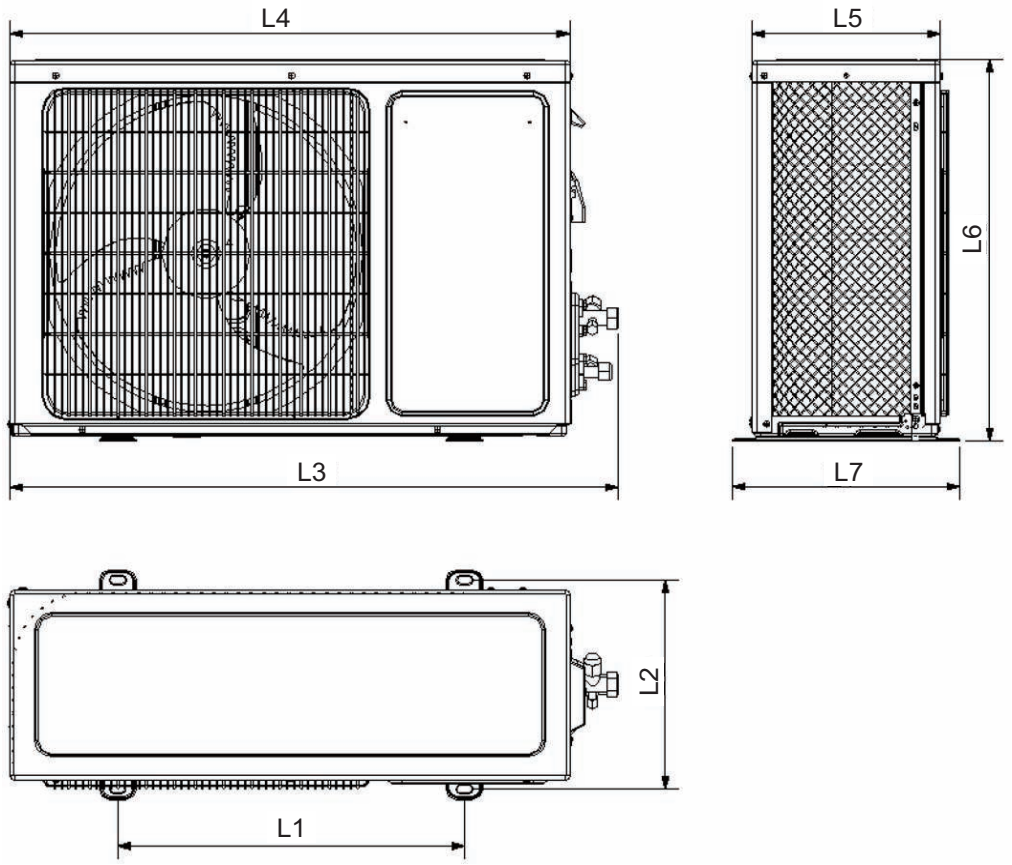
Type				Inverter, Heat pump	
Model name				**AOKA30KPBA**	**AOKA36KPBA**
Power supply				220 V~ 60 Hz	
Power supply intake				Outdoor unit	
Available voltage range				198—242 V	
Starting current			A	3.1	4.0
Fan	Airflow rate	Cooling	m^3/h	3,800	
		Heating		3,800	
	Type × Qty			Propeller fan × 1	
	Motor output		W	102	
Sound pressure level*1		Cooling	dB (A)	60	
		Heating		60	
Heat exchanger type		Dimensions (H × W × D)	mm	Main 1: 714 × 970 × 18.19 Main 2: 714 × 942 × 18.19	Main 1: 714 × 962 × 18.19 Main 2: 714 × 934 × 18.19 Main 3: 714 × 550 × 18.19
		Fin pitch		Main 1: 1.6 Main 2: 1.6	Main 1: 1.6 Main 2: 1.6 Main 3: 1.6
		Rows × Stages		Main 1: 1 × 34 Main 2: 1 × 34	Main 1: 1 × 34 Main 2: 1 × 34 Main 3: 1 × 34
		Pipe type		Copper tube	
		Fin type	Type (Material)	Aluminum	
			Surface treatment	Hydrophily	
Compressor	Type			DC rotary	
	Motor output		W	2,055	2,765
Refrigerant		Type		R32	
		Charge	g	1,620	2,480
Refrigerant oil		Type		Polyolester	
		Amount	cm^3	620	1,000
Enclosure		Material		Steel sheet	
		Color		Gray-white	
Dimensions (H × W × D)	Net		mm	750 × 900 × 340	
	Gross			820 × 1,060 × 450	
Weight	Net		kg	49.0	58.5
	Gross			53.0	62.0
Connection pipe	Size	Liquid	mm (in)	Ø9.52 (Ø3/8)	
		Gas		Ø15.88 (Ø5/8)	
	Method			Flare	
	Pre-charge length		m	5	
	Max. length			15	
	Max. height difference			5	
	Additional charge		g/m	40	
Operation range*2		Cooling	°C	16 to 46*3	
		Heating		-15 to 24	

NOTES:

- Specifications are based on the following conditions:
  - Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB.
  - Heating: Indoor temperature of 21°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.
  - Pipe length: 5 m, Height difference: 0 m.
- Protective function might work when using it outside the operation range.
- *1: Sound pressure level
  - Measured values in manufacturer's anechoic chamber.
  - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.
- *2: The protection circuits might activate to stop the unit's operation outside the temperature range.
- *3: Suction temperature of the outdoor unit.

2. Dimensions

2-1. Models: AOKA09KPBA, AOKA12KPBA, AOKA18KPBA, AOKA24KPBA, AOKA30KPBA, and AOKA36KPBA



Model name	L1	L2	L3	L4	L5	L6	L7
	(Unit: mm)						
AOKA09KPBA	450	264	713	660	241	491	290
AOKA12KPBA	450	264	713	660	241	491	290
AOKA18KPBA	530	290	856	780	260	538	317
AOKA24KPBA	542	341	935	878	310	667	368
AOKA30KPBA	608	368	974	919	340	750	398
AOKA36KPBA	608	368	974	919	340	750	398

NOTE: The detailed shape of the outdoor unit may vary by the model.

OUTDOOR UNIT
AOKA09-36KPBA

3. Installation space

3-1. Models: AOKA09KPBA, AOKA12KPBA, AOKA18KPBA, AOKA24KPBA, AOKA30KPBA, and AOKA36KPBA

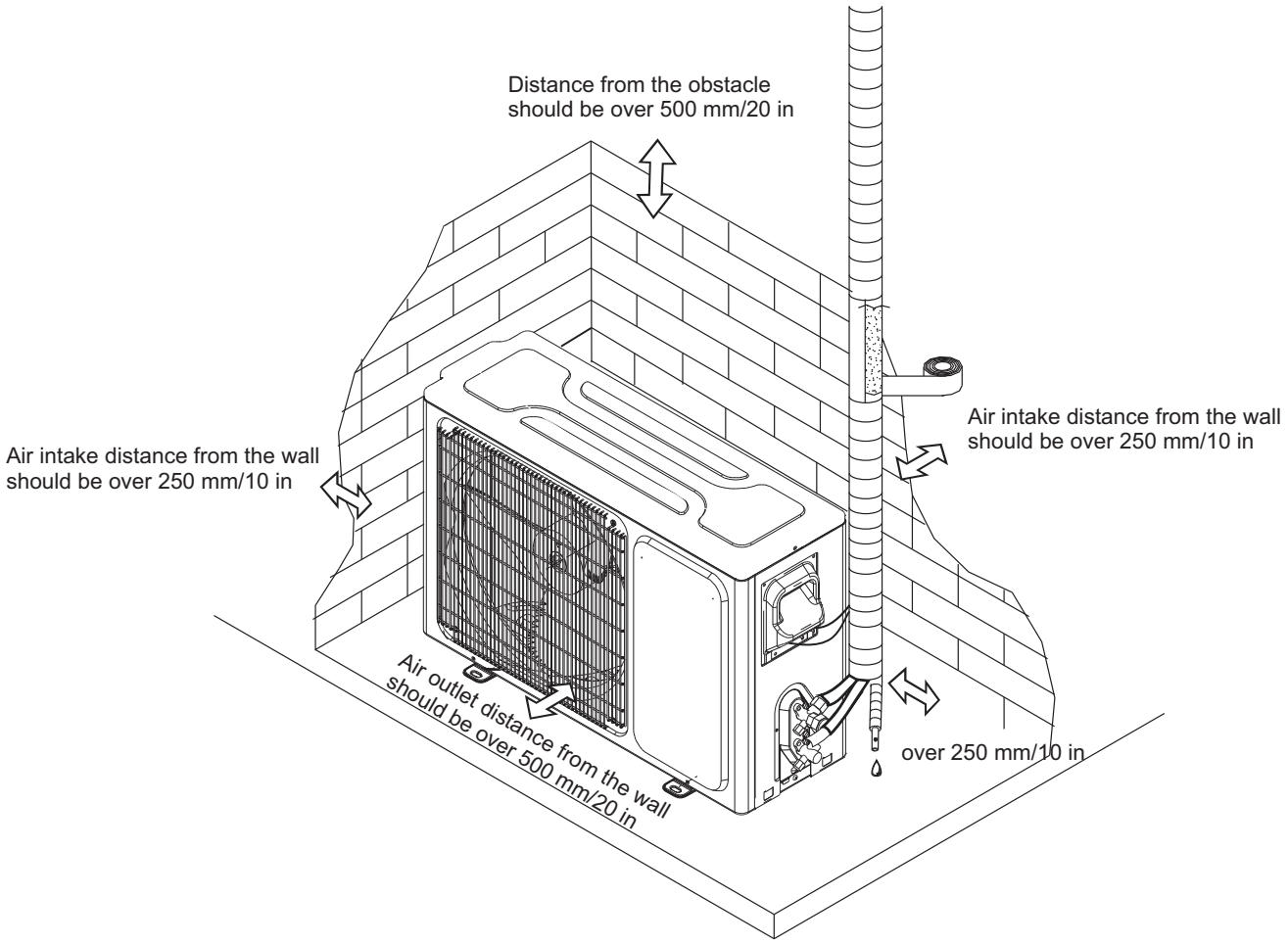
■ Space requirement

Provide sufficient installation space for product safety.

⚠ CAUTION

Keep the space shown in the installation examples.

If the installation is not performed accordingly, it could cause a short circuit and result in a lack of operating performance.



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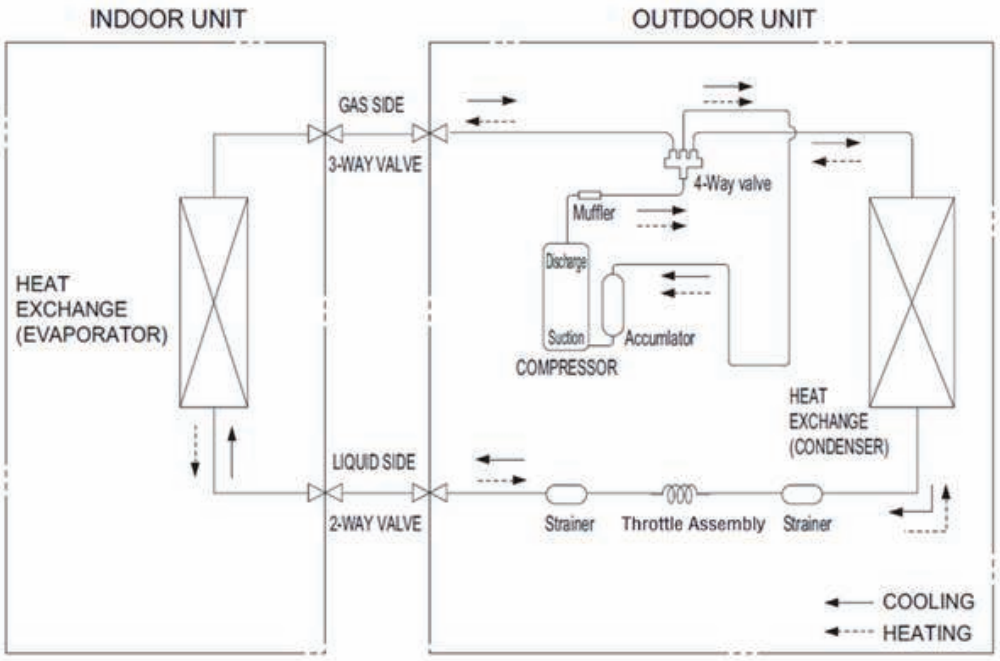
4. Refrigerant circuit

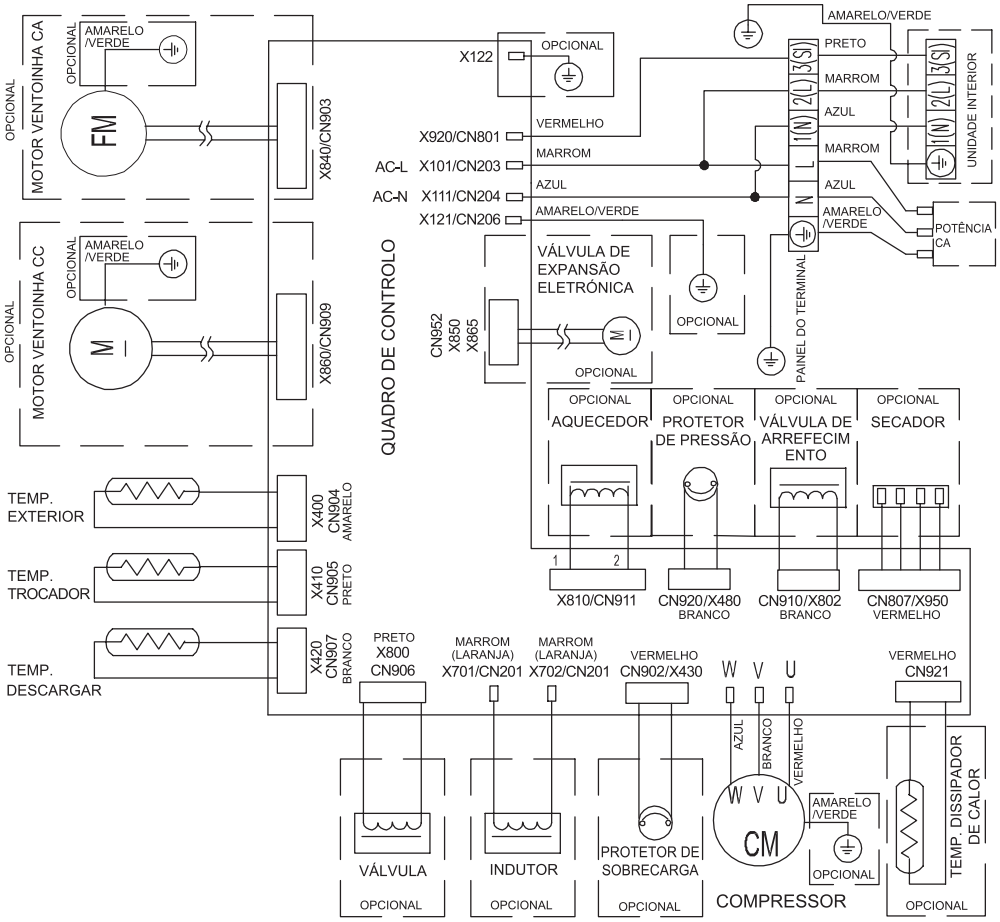
4-1. Models: AOKA09KPBA, AOKA12KPBA, AOKA18KPBA, AOKA24KPBA, AOKA30KPBA, and AOKA36KPBA



NOTE: The Throttle assembly may be a Capillary or an Electronic expansion valve in different models.

5. Wiring diagrams

5-1. Models: AOKA09KPBA, AOKA12KPBA, AOKA18KPBA, AOKA24KPBA, AOKA30KPBA, and AOKA36KPBA



6. Electrical characteristics

Model name				AOKA09KPBA	AOKA12KPBA
Power supply	Voltage		V	220	
	Frequency		Hz	60	
Maximum operating current*1			A	5.0	7.0
Wiring spec.*2	Circuit breaker current		A	15	
	Power cable		mm^2	1.0—1.5	
	Connection cable*3	Cross-sectional area	mm^2	1.5—2.0	
		Limited wiring length	m	20	

Model name				AOKA18KPBA	AOKA24KPBA
Power supply	Voltage		V	220	
	Frequency		Hz	60	
Maximum operating current*1			A	12.7	14.5
Wiring spec.*2	Circuit breaker current		A	20	30
	Power cable		mm^2	1.5—2.0	2.5—3.0
	Connection cable*3	Cross-sectional area	mm^2	1.5—2.0	
		Limited wiring length	m	20	

Model name				AOKA30KPBA	AOKA36KPBA
Power supply	Voltage		V	220	
	Frequency		Hz	60	
Maximum operating current*1			A	15.5	18.2
Wiring spec.*2	Circuit breaker current		A	30	
	Power cable		mm^2	2.5—3.0	
	Connection cable*3	Cross-sectional area	mm^2	1.5—2.0	
		Limited wiring length	m	20	

NOTES:

- *1: Maximum operating current is the total current of the indoor unit and the outdoor unit.
- *2: Selected sample based on Japan Electrotechnical Standards and Codes Committee E0005. As the regulations of wire size and circuit breaker differ in each country or region, select appropriate devices complied to the regional standard.
- *3: Limit voltage drop to less than 2%. If voltage drop is 2% or more, increase cable conductor size.

7. Accessories

7-1. Models: AOKA09KPBA, AOKA12KPBA, AOKA18KPBA, AOKA24KPBA, AOKA30KPBA, and AOKA36KPBA

Part name	Exterior	Qty	Part name	Exterior	Qty
Rubber pad		4	—	—	—

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