Manual No.'18•SRK-T-234
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MITSUBISHI HEAVY INDUSTRIES

TECHNICAL MANUAL

INVERTER WALL MOUNTED TYPE RESIDENTIAL AIR-CONDITIONERS

(Split system, air to air heat pump type)

SRK20ZSX-W, -WB, -WT
SRK25ZSX-W, -WB, -WT
SRK35ZSX-W, -WB, -WT
SRK50ZSX-W, -WB, -WT
SRK60ZSX-W, -WB, -WT

MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.

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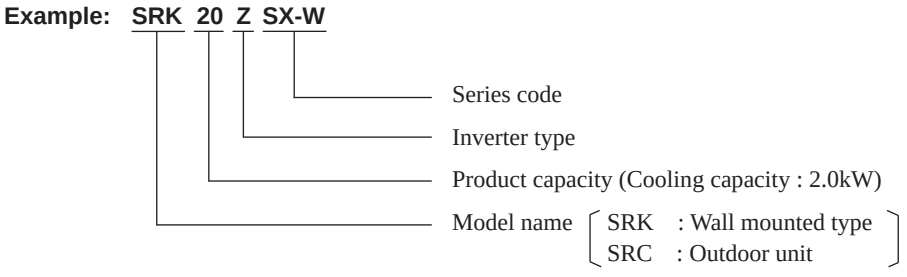
■How to read the model name



Note(1) In -WB, -WT, all except for the color is the same specification as all -W.

1. SPECIFICATIONS

Item			Model	SRK20ZSX-W	
				Indoor unit SRK20ZSX-W	Outdoor unit SRC20ZSX-W
Power source				1 Phase, 220 - 240V, 50Hz / 220V, 60Hz	
Operation data	Nominal cooling capacity (range)		kW	2.0 (0.9(Min.) - 3.4 (Max.))	
	Nominal heating capacity (range)		kW	2.7 (0.8(Min.) - 5.5 (Max.))	
	Heating capacity (H2)		kW	—	
	Power consumption	Cooling	kW	0.31 (0.16 - 0.76)	
		Heating		0.47 (0.14 - 1.36)	
		Heating (H2)		—	
	Max power consumption			1.92	
	Running current	Cooling	A	1.9 / 1.8 / 1.7 (220/ 230/ 240V)	
		Heating		2.6 / 2.5 / 2.4 (220/ 230/ 240V)	
	Inrush current, max current			2.5 Max. 9	
	Power factor	Cooling	%	76	
		Heating		81	
	EER	Cooling		6.45	
	COP	Heating		5.74	
		Heating (H2)		—	
	Sound power level	Cooling	dB(A)	53	56
		Heating		55	58
	Sound pressure level	Cooling		Hi: 38 Me: 31 Lo: 24 ULo: 19	43
		Heating		Hi: 38 Me: 33 Lo: 25 ULo: 19	45
	Silent mode sound pressure level			-	Cooling:33 / Heating:38
Exterior dimensions (Height x Width x Depth)			mm	305 x 920 x 220	640 x 800(+71) x 290
Exterior appearance (Equivalent color)				Fine snow Munsell: (8.0Y 9.3/0.1), RAL: 9003	Stucco white Munsell: (4.2Y 7.5/1.1), RAL: 7044
Net weight			kg	13	43.0
Compressor type & Quantity				-	RMT5111SWE3(Twin rotary type) x 1
Compressor motor (Starting method)			kW	-	0.75 (Inverter driven)
Refrigerant oil (Amount, type)			ℓ	-	0.35 (DIAMOND FREEZE MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 1.20 in outdoor unit (Incl. the amount for the piping of 15m)	
Heat exchanger				Louver fins & inner grooved tubing	M fins & inner grooved tubing
Refrigerant control				Capillary tubes + Electronic expansion valve	
Fan type & Quantity				Tangential fan x 1	Propeller fan x 1
Fan motor (Starting method)			W	42 x1 (Direct drive)	34 x1 (Direct drive)
Air flow		Cooling	m^3/min	Hi: 11.3 Me: 9.1 Lo: 6.0 ULo: 5.0	31.0
		Heating		Hi: 12.2 Me: 10.3 Lo: 7.2 ULo: 5.4	31.0
Available external static pressure			Pa	0	0
Outside air intake				Not possible	-
Air filter, Quality / Quantity				Polypropylene net (Washable) x 2	-
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heater				-	-
Operation control	Remote control			Wireless-remote control	
	Room temperature control			Microcomputer thermostat	
	Operation display			RUN: Green , TIMER: Yellow , ECO: Blue	
Safety equipments				Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Indoor fan motor error protection, Heating overload protection(High pressure control), Cooling overload protection	
Installation data	Refrigerant piping size (O.D)		mm	Liquid line: ϕ6.35 (1/4")	Gas line: ϕ9.52 (3/8")
	Connecting method			Flare connection	Flare connection
	Attached length of piping		m	Liquid line : 0.55 / Gas line : 0.48	-
	Insulation for piping			Necessary (Both sides), independent	
	Refrigerant line (one way) length		m	Max.25	
	Vertical height diff. between O.U. and I.U.		m	Max.15 (Outdoor unit is higher) / Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP16)	Hole ϕ20 x 5 pcs
Drain pump, max lift height			mm	-	-
Recommended breaker size			A	16	
L.R.A. (Locked rotor ampere)			A	2.5	
Interconnecting wires		Size x Core number		1.5mm^2 x 4 cores (Including earth cable) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4
Standard accessories				Mounting kit, Clean filter (Allergen clear filter x 1, Photocatalytic washable deodorizing filter x 1)	
Option parts				Interface kit (SC-BIKN2-E)	

Notes (1) The data are measured at the following conditions. The pipe length is 5m.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	-	2°C	1°C	ISO5151-H2

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
(4) Select the breaker size according to the own national standard.

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Item \ Model				SRK25ZSX-W	
				Indoor unit SRK25ZSX-W	Outdoor unit SRC25ZSX-W
Power source				1 Phase, 220 - 240V, 50Hz / 220V, 60Hz	
Operation data	Nominal cooling capacity (range)		kW	2.5 (0.9(Min.) - 3.8 (Max.))	
	Nominal heating capacity (range)		kW	3.2 (0.8(Min.) - 6.0 (Max.))	
	Heating capacity (H2)		kW	—	
	Power consumption	Cooling	kW	0.44 (0.16 - 0.91)	
		Heating		0.59 (0.14 - 1.54)	
		Heating (H2)		—	
	Max power consumption			1.92	
	Running current	Cooling	A	2.5 / 2.4 / 2.3 (220/ 230/ 240V)	
		Heating		3.2 / 3.0 / 2.9 (220/ 230/ 240V)	
	Inrush current, max current			3.0 Max. 9	
	Power factor	Cooling	%	80	
		Heating		85	
	EER	Cooling		5.68	
	COP	Heating		5.42	
		Heating (H2)		—	
	Sound power level	Cooling	dB(A)	55	57
		Heating		56	58
	Sound pressure level	Cooling		Hi: 39 Me: 33 Lo: 25 ULo: 19	44
		Heating		Hi: 40 Me: 34 Lo: 27 ULo: 19	45
	Silent mode sound pressure level			-	Cooling:35 / Heating:39
Exterior dimensions (Height x Width x Depth)			mm	305 x 920 x 220	640 x 800(+71) x 290
Exterior appearance (Equivalent color)				Fine snow Munsell: (8.0Y 9.3/0.1), RAL: 9003	Stucco white Munsell: (4.2Y 7.5/1.1), RAL: 7044
Net weight			kg	13	43.0
Compressor type & Quantity				-	RMT5111SWE3(Twin rotary type) x 1
Compressor motor (Starting method)			kW	-	0.75 (Inverter driven)
Refrigerant oil (Amount, type)			ℓ	-	0.35 (DIAMOND FREEZE MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 1.20 in outdoor unit (Incl. the amount for the piping of 15m)	
Heat exchanger				Louver fins & inner grooved tubing	M fins & inner grooved tubing
Refrigerant control				Capillary tubes + Electronic expansion valve	
Fan type & Quantity				Tangential fan x 1	Propeller fan x 1
Fan motor (Starting method)			W	42 x1 (Direct drive)	34 x1 (Direct drive)
Air flow		Cooling	m^3/min	Hi: 12.2 Me: 10.0 Lo: 6.7 ULo: 5.0	31.0
		Heating		Hi: 12.8 Me: 11.0 Lo: 7.8 ULo: 5.4	31.0
Available external static pressure			Pa	0	0
Outside air intake				Not possible	-
Air filter, Quality / Quantity				Polypropylene net (Washable) x 2	-
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heater				-	-
Operation control	Remote control			Wireless-remote control	
	Room temperature control			Microcomputer thermostat	
	Operation display			RUN: Green , TIMER: Yellow , ECO: Blue	
Safety equipments				Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Indoor fan motor error protection, Heating overload protection(High pressure control), Cooling overload protection	
Installation data	Refrigerant piping size (O.D)		mm	Liquid line: ϕ6.35 (1/4")	Gas line: ϕ9.52 (3/8")
	Connecting method			Flare connection	Flare connection
	Attached length of piping		m	Liquid line : 0.55 / Gas line : 0.48	-
	Insulation for piping			Necessary (Both sides), independent	
	Refrigerant line (one way) length		m	Max.25	
	Vertical height diff. between O.U. and I.U.		m	Max.15 (Outdoor unit is higher) / Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP16)	Hole ϕ20 x 5 pcs
Drain pump, max lift height			mm	-	-
Recommended breaker size			A	16	
L.R.A. (Locked rotor ampere)			A	3.0	
Interconnecting wires		Size x Core number		1.5mm^2 x 4 cores (Including earth cable) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4
Standard accessories				Mounting kit, Clean filter (Allergen clear filter x 1, Photocatalytic washable deodorizing filter x 1)	
Option parts				Interface kit (SC-BIKN2-E)	

Notes (1) The data are measured at the following conditions. The pipe length is 5m.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	-	2°C	1°C	ISO5151-H2

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Item			Model	SRK35ZSX-W	
				Indoor unit SRK35ZSX-W	Outdoor unit SRC35ZSX-W
Power source				1 Phase, 220 - 240V, 50Hz / 220V, 60Hz	
Operation data	Nominal cooling capacity (range)		kW	3.5 (0.9(Min.) - 4.5 (Max.))	
	Nominal heating capacity (range)		kW	4.3 (0.8(Min.) - 6.8 (Max.))	
	Heating capacity (H2)		kW	—	
	Power consumption	Cooling	kW	0.74 (0.16 - 1.27)	
		Heating		0.90 (0.14 - 1.87)	
		Heating (H2)		—	
	Max power consumption			1.92	
	Running current	Cooling	A	3.7 / 3.5 / 3.4 (220/ 230/ 240V)	
		Heating		4.4 / 4.3 / 4.1 (220/ 230/ 240V)	
	Inrush current, max current			4.3 Max. 9	
	Power factor	Cooling	%	91	
		Heating		92	
	EER	Cooling		4.73	
	COP	Heating		4.78	
		Heating (H2)		—	
	Sound power level	Cooling	dB(A)	58	61
		Heating		58	62
	Sound pressure level	Cooling		Hi: 43 Me: 35 Lo: 26 ULo: 19	48
		Heating		Hi: 42 Me: 35 Lo: 28 ULo: 19	47
	Silent mode sound pressure level			-	Cooling:38 / Heating:43
Exterior dimensions (Height x Width x Depth)			mm	305 x 920 x 220	640 x 800(+71) x 290
Exterior appearance (Equivalent color)				Fine snow Munsell: (8.0Y 9.3/0.1), RAL: 9003	Stucco white Munsell: (4.2Y 7.5/1.1), RAL: 7044
Net weight			kg	13	43.0
Compressor type & Quantity				-	RMT5111SWE3(Twin rotary type) x 1
Compressor motor (Starting method)			kW	-	0.90 (Inverter driven)
Refrigerant oil (Amount, type)			ℓ	-	0.35 (DIAMOND FREEZE MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 1.20 in outdoor unit (Incl. the amount for the piping of 15m)	
Heat exchanger				Louver fins & inner grooved tubing	M fins & inner grooved tubing
Refrigerant control				Capillary tubes + Electronic expansion valve	
Fan type & Quantity				Tangential fan x 1	Propeller fan x 1
Fan motor (Starting method)			W	42 x1 (Direct drive)	34 x1 (Direct drive)
Air flow		Cooling	m^3/min	Hi: 13.1 Me: 10.8 Lo: 7.3 ULo: 5.0	36.0
		Heating		Hi: 13.9 Me: 11.8 Lo: 8.6 ULo: 5.4	31.0
Available external static pressure			Pa	0	0
Outside air intake				Not possible	-
Air filter, Quality / Quantity				Polypropylene net (Washable) x 2	-
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heater				-	-
Operation control	Remote control			Wireless-remote control	
	Room temperature control			Microcomputer thermostat	
	Operation display			RUN: Green , TIMER: Yellow , ECO: Blue	
Safety equipments				Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Indoor fan motor error protection, Heating overload protection(High pressure control), Cooling overload protection	
Installation data	Refrigerant piping size (O.D)		mm	Liquid line: ϕ6.35 (1/4")	Gas line: ϕ9.52 (3/8")
	Connecting method			Flare connection	Flare connection
	Attached length of piping		m	Liquid line : 0.55 / Gas line : 0.48	-
	Insulation for piping			Necessary (Both sides), independent	
	Refrigerant line (one way) length		m	Max.25	
	Vertical height diff. between O.U. and I.U.		m	Max.15 (Outdoor unit is higher) / Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP16)	Hole ϕ20 x 5 pcs
Drain pump, max lift height			mm	-	-
Recommended breaker size			A	16	
L.R.A. (Locked rotor ampere)			A	4.3	
Interconnecting wires		Size x Core number		1.5mm² x 4 cores (Including earth cable) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4
Standard accessories				Mounting kit, Clean filter (Allergen clear filter x 1, Photocatalytic washable deodorizing filter x 1)	
Option parts				Interface kit (SC-BIKN2-E)	

Notes (1) The data are measured at the following conditions. The pipe length is 5m.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	-	2°C	1°C	ISO5151-H2

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(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
(4) Select the breaker size according to the own national standard.

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Item \ Model				SRK50ZSX-W	
				Indoor unit SRK50ZSX-W	Outdoor unit SRC50ZSX-W
Power source				1 Phase, 220 - 240V, 50Hz / 220V, 60Hz	
Operation data	Nominal cooling capacity (range)		kW	5.0 (1.0(Min.) - 6.2 (Max.))	
	Nominal heating capacity (range)		kW	6.0 (0.8(Min.) - 8.2 (Max.))	
	Heating capacity (H2)		kW	—	
	Power consumption	Cooling	kW	1.24 (0.19 - 1.90)	
		Heating		1.36 (0.20 - 2.46)	
		Heating (H2)		—	
	Max power consumption			2.90	
	Running current	Cooling	A	5.7 / 5.4 / 5.2 (220/ 230/ 240V)	
		Heating		6.2 / 6.0 / 5.7 (220/ 230/ 240V)	
	Inrush current, max current			5.0 Max.15	
	Power factor	Cooling	%	99	
		Heating		99	
	EER	Cooling		4.03	
	COP	Heating		4.41	
		Heating (H2)		—	
	Sound power level	Cooling	dB(A)	59	63
		Heating		62	61
	Sound pressure level	Cooling		Hi: 44 Me: 39 Lo: 31 ULo: 22	51
		Heating		Hi: 47 Me: 41 Lo: 33 ULo: 23	49
	Silent mode sound pressure level			-	Cooling:42 / Heating:43
Exterior dimensions (Height x Width x Depth)			mm	305 x 920 x 220	640 x 800(+71) x 290
Exterior appearance (Equivalent color)				Fine snow Munsell: (8.0Y 9.3/0.1), RAL: 9003	Stucco white Munsell: (4.2Y 7.5/1.1), RAL: 7044
Net weight			kg	13	45
Compressor type & Quantity				-	RMT5111SWE3(Twin rotary type) x 1
Compressor motor (Starting method)			kW	-	1.50 (Inverter driven)
Refrigerant oil (Amount, type)			ℓ	-	0.45 (DIAMOND FREEZE MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 1.30 in outdoor unit (Incl. the amount for the piping of 15m)	
Heat exchanger				Louver fins & inner grooved tubing	M fins & inner grooved tubing
Refrigerant control				Capillary tubes + Electronic expansion valve	
Fan type & Quantity				Tangential fan x 1	Propeller fan x 1
Fan motor (Starting method)			W	42 x1 (Direct drive)	34 x1 (Direct drive)
Air flow		Cooling	m^3/min	Hi: 14.3 Me: 12.4 Lo: 7.8 ULo: 5.4	39.0
		Heating		Hi: 17.3 Me: 14.3 Lo: 9.8 ULo: 6.2	33.0
Available external static pressure			Pa	0	0
Outside air intake				Not possible	-
Air filter, Quality / Quantity				Polypropylene net (Washable) x 2	-
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heater				-	-
Operation control	Remote control			Wireless remote control	
	Room temperature control			Microcomputer thermostat	
	Operation display			RUN: Green , TIMER: Yellow , ECO: Blue	
Safety equipments				Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Indoor fan motor error protection, Heating overload protection(High pressure control), Cooling overload protection	
Installation data	Refrigerant piping size (O.D)		mm	Liquid line: ϕ6.35 (1/4")	Gas line: ϕ12.7 (1/2")
	Connecting method			Flare connection	Flare connection
	Attached length of piping		m	Liquid line : 0.55 / Gas line : 0.48	-
	Insulation for piping			Necessary (Both sides), independent	
	Refrigerant line (one way) length		m	Max.30	
	Vertical height diff. between O.U. and I.U.		m	Max.20 (Outdoor unit is higher) / Max.20 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP16)	Hole ϕ20 x 5 pcs
Drain pump, max lift height			mm	-	-
Recommended breaker size			A	20	
L.R.A. (Locked rotor ampere)			A	5.0	
Interconnecting wires		Size x Core number		1.5mm^2 x 4 cores (Including earth cable) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4
Standard accessories				Mounting kit, Clean filter (Allergen clear filter x 1, Photocatalytic washable deodorizing filter x 1)	
Option parts				Interface kit (SC-BIKN2-E)	

Notes (1) The data are measured at the following conditions. The pipe length is 5m.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	-	2°C	1°C	ISO5151-H2

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
(4) Select the breaker size according to the own national standard.

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Item			Model	SRK60ZSX-W	
				Indoor unit SRK60ZSX-W	Outdoor unit SRC60ZSX-W
Power source				1 Phase, 220 - 240V, 50Hz / 220V, 60Hz	
Operation data	Nominal cooling capacity (range)		kW	6.1 (1.0(Min.) - 6.9 (Max.))	
	Nominal heating capacity (range)		kW	6.8 (0.8(Min.) - 8.8 (Max.))	
	Heating capacity (H2)		kW	—	
	Power consumption	Cooling	kW	1.71 (0.19 - 2.50)	
		Heating		1.65 (0.20 - 2.86)	
		Heating (H2)		—	
	Max power consumption			2.90	
	Running current	Cooling	A	7.9 / 7.5 / 7.2 (220/ 230/ 240V)	
		Heating		7.6 / 7.2 / 6.9 (220/ 230/ 240V)	
	Inrush current, max current			5.0 Max. 15	
	Power factor	Cooling	%	99	
		Heating		99	
	EER	Cooling		3.57	
	COP	Heating		4.12	
		Heating (H2)		—	
	Sound power level	Cooling	dB(A)	62	65
		Heating		63	64
	Sound pressure level	Cooling		Hi: 48 Me: 41 Lo: 33 ULo: 22	52
		Heating		Hi: 47 Me: 42 Lo: 34 ULo: 23	53
	Silent mode sound pressure level			-	Cooling:42 / Heating:43
Exterior dimensions (Height x Width x Depth)			mm	305 x 920 x 220	640 x 800(+71) x 290
Exterior appearance (Equivalent color)				Fine snow Munsell: (8.0Y 9.3/0.1), RAL: 9003	Stucco white Munsell: (4.2Y 7.5/1.1), RAL: 7044
Net weight			kg	13	45
Compressor type & Quantity				-	RMT5111SWE3(Twin rotary type) x 1
Compressor motor (Starting method)			kW	-	1.50 (Inverter driven)
Refrigerant oil (Amount, type)			ℓ	-	0.45 (DIAMOND FREEZE MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 1.30 in outdoor unit (Incl. the amount for the piping of 15m)	
Heat exchanger				Louver fins & inner grooved tubing	M fins & inner grooved tubing
Refrigerant control				Capillary tubes + Electronic expansion valve	
Fan type & Quantity				Tangential fan x 1	Propeller fan x 1
Fan motor (Starting method)			W	42 x1 (Direct drive)	34 x1 (Direct drive)
Air flow		Cooling	m^3/min	Hi: 16.3 Me: 13.4 Lo: 8.9 ULo: 5.4	41.5
		Heating		Hi: 17.8 Me: 13.7 Lo: 10.9 ULo: 6.2	39.0
Available external static pressure			Pa	0	0
Outside air intake				Not possible	-
Air filter, Quality / Quantity				Polypropylene net (Washable) x 2	-
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heater				-	-
Operation control	Remote control			Wireless remote control	
	Room temperature control			Microcomputer thermostat	
	Operation display			RUN: Green , TIMER: Yellow , ECO: Blue	
Safety equipments				Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Indoor fan motor error protection, Heating overload protection(High pressure control), Cooling overload protection	
Installation data	Refrigerant piping size (O.D)		mm	Liquid line: ϕ6.35 (1/4")	Gas line: ϕ12.7 (1/2")
	Connecting method			Flare connection	Flare connection
	Attached length of piping		m	Liquid line : 0.55 / Gas line : 0.48	-
	Insulation for piping			Necessary (Both sides), independent	
	Refrigerant line (one way) length		m	Max.30	
	Vertical height diff. between O.U. and I.U.		m	Max.20 (Outdoor unit is higher) / Max.20 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP16)	Hole ϕ20 x 5 pcs
Drain pump, max lift height			mm	-	-
Recommended breaker size			A	20	
L.R.A. (Locked rotor ampere)			A	5.0	
Interconnecting wires		Size x Core number		1.5mm^2 x 4 cores (Including earth cable) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4
Standard accessories				Mounting kit, Clean filter (Allergen clear filter x 1, Photocatalytic washable deodorizing filter x 1)	
Option parts				Interface kit (SC-BIKN2-E)	

Notes (1) The data are measured at the following conditions. The pipe length is 5m.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	-	2°C	1°C	ISO5151-H2

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
(4) Select the breaker size according to the own national standard.

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#

Item			Model	SRK20ZSX-WB	
				Indoor unit SRK20ZSX-WB	Outdoor unit SRC20ZSX-W
Power source				1 Phase, 220 - 240V, 50Hz / 220V, 60Hz	
Operation data	Nominal cooling capacity (range)		kW	2.0 (0.9(Min.) - 3.4 (Max.))	
	Nominal heating capacity (range)		kW	2.7 (0.8(Min.) - 5.5 (Max.))	
	Heating capacity (H2)		kW	—	
	Power consumption	Cooling	kW	0.31 (0.16 - 0.76)	
		Heating		0.47 (0.14 - 1.36)	
		Heating (H2)		—	
	Max power consumption			1.92	
	Running current	Cooling	A	1.9 / 1.8 / 1.7 (220/ 230/ 240V)	
		Heating		2.6 / 2.5 / 2.4 (220/ 230/ 240V)	
	Inrush current, max current			2.5 Max. 9	
	Power factor	Cooling	%	76	
		Heating		81	
	EER	Cooling		6.45	
	COP	Heating		5.74	
		Heating (H2)		—	
	Sound power level	Cooling	dB(A)	53	56
		Heating		55	58
	Sound pressure level	Cooling		Hi: 38 Me: 31 Lo: 24 ULo: 19	43
		Heating		Hi: 38 Me: 33 Lo: 25 ULo: 19	45
	Silent mode sound pressure level			-	Cooling:33 / Heating:38
Exterior dimensions (Height x Width x Depth)			mm	305 x 920 x 220	640 x 800(+71) x 290
Exterior appearance (Equivalent color)				Fine snow (8.0Y 9.3/0.1), (RAL:9003) Black (4.0PB 2.44/0.25), (RAL:9011)	Stucco white Munsell: (4.2Y 7.5/1.1), RAL:7044
Net weight			kg	13	43.0
Compressor type & Quantity				-	RMT5111SWE3(Twin rotary type) x 1
Compressor motor (Starting method)			kW	-	0.75 (Inverter driven)
Refrigerant oil (Amount, type)			ℓ	-	0.35 (DIAMOND FREEZE MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 1.20 in outdoor unit (Incl. the amount for the piping of 15m)	
Heat exchanger				Louver fins & inner grooved tubing	M fins & inner grooved tubing
Refrigerant control				Capillary tubes + Electronic expansion valve	
Fan type & Quantity				Tangential fan x 1	Propeller fan x 1
Fan motor (Starting method)			W	42 x1 (Direct drive)	34 x1 (Direct drive)
Air flow		Cooling	m^3/min	Hi: 11.3 Me: 9.1 Lo: 6.0 ULo: 5.0	31.0
		Heating		Hi: 12.2 Me: 10.3 Lo: 7.2 ULo: 5.4	31.0
Available external static pressure			Pa	0	0
Outside air intake				Not possible	-
Air filter, Quality / Quantity				Polypropylene net (Washable) x 2	-
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heater				-	-
Operation control	Remote control			Wireless-remote control	
	Room temperature control			Microcomputer thermostat	
	Operation display			RUN: Green , TIMER: Yellow , ECO: Blue	
Safety equipments				Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Indoor fan motor error protection, Heating overload protection(High pressure control), Cooling overload protection	
Installation data	Refrigerant piping size (O.D)		mm	Liquid line: ϕ6.35 (1/4")	Gas line: ϕ9.52 (3/8")
	Connecting method			Flare connection	Flare connection
	Attached length of piping		m	Liquid line : 0.55 / Gas line : 0.48	-
	Insulation for piping			Necessary (Both sides), independent	
	Refrigerant line (one way) length		m	Max.25	
	Vertical height diff. between O.U. and I.U.		m	Max.15 (Outdoor unit is higher) / Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP16)	Hole ϕ20 x 5 pcs
Drain pump, max lift height			mm	-	-
Recommended breaker size			A	16	
L.R.A. (Locked rotor ampere)			A	2.5	
Interconnecting wires	Size x Core number			1.5mm^2 x 4 cores (Including earth cable) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4
Standard accessories				Mounting kit, Clean filter (Allergen clear filter x 1, Photocatalytic washable deodorizing filter x 1)	
Option parts				Interface kit (SC-BIKN2-E)	

Notes (1) The data are measured at the following conditions. The pipe length is 5m.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	-	2°C	1°C	ISO5151-H2

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
(4) Select the breaker size according to the own national standard.

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#

Item			Model	SRK25ZSX-WB	
				Indoor unit SRK25ZSX-WB	Outdoor unit SRC25ZSX-W
Power source				1 Phase, 220 - 240V, 50Hz / 220V, 60Hz	
Operation data	Nominal cooling capacity (range)		kW	2.5 (0.9(Min.) - 3.8 (Max.))	
	Nominal heating capacity (range)		kW	3.2 (0.8(Min.) - 6.0 (Max.))	
	Heating capacity (H2)		kW	—	
	Power consumption	Cooling	kW	0.44 (0.16 - 0.91)	
		Heating		0.59 (0.14 - 1.54)	
		Heating (H2)		—	
	Max power consumption			1.92	
	Running current	Cooling	A	2.5 / 2.4 / 2.3 (220/ 230/ 240V)	
		Heating		3.2 / 3.0 / 2.9 (220/ 230/ 240V)	
	Inrush current, max current			3.0 Max. 9	
	Power factor	Cooling	%	80	
		Heating		85	
	EER	Cooling		5.68	
	COP	Heating		5.42	
		Heating (H2)		—	
	Sound power level	Cooling	dB(A)	55	57
		Heating		56	58
	Sound pressure level	Cooling		Hi: 39 Me: 33 Lo: 25 ULo: 19	44
		Heating		Hi: 40 Me: 34 Lo: 27 ULo: 19	45
	Silent mode sound pressure level			-	Cooling:35 / Heating:39
Exterior dimensions (Height x Width x Depth)			mm	305 x 920 x 220	640 x 800(+71) x 290
Exterior appearance (Equivalent color)				Fine snow (8.0Y 9.3/0.1), (RAL:9003) Black (4.0PB 2.44/0.25), (RAL:9011)	Stucco white Munsell: (4.2Y 7.5/1.1), RAL:7044
Net weight			kg	13	43.0
Compressor type & Quantity				-	RMT5111SWE3(Twin rotary type) x 1
Compressor motor (Starting method)			kW	-	0.75 (Inverter driven)
Refrigerant oil (Amount, type)			ℓ	-	0.35 (DIAMOND FREEZE MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 1.20 in outdoor unit (Incl. the amount for the piping of 15m)	
Heat exchanger				Louver fins & inner grooved tubing	M fins & inner grooved tubing
Refrigerant control				Capillary tubes + Electronic expansion valve	
Fan type & Quantity				Tangential fan x 1	Propeller fan x 1
Fan motor (Starting method)			W	42 x1 (Direct drive)	34 x1 (Direct drive)
Air flow		Cooling	m^3/min	Hi: 12.2 Me: 10.0 Lo: 6.7 ULo: 5.0	31.0
		Heating		Hi: 12.8 Me: 11.0 Lo: 7.8 ULo: 5.4	31.0
Available external static pressure			Pa	0	0
Outside air intake				Not possible	-
Air filter, Quality / Quantity				Polypropylene net (Washable) x 2	-
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heater				-	-
Operation control	Remote control			Wireless-remote control	
	Room temperature control			Microcomputer thermostat	
	Operation display			RUN: Green , TIMER: Yellow , ECO: Blue	
Safety equipments				Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Indoor fan motor error protection, Heating overload protection(High pressure control), Cooling overload protection	
Installation data	Refrigerant piping size (O.D)		mm	Liquid line: ϕ6.35 (1/4")	Gas line: ϕ9.52 (3/8")
	Connecting method			Flare connection	Flare connection
	Attached length of piping		m	Liquid line : 0.55 / Gas line : 0.48	-
	Insulation for piping			Necessary (Both sides), independent	
	Refrigerant line (one way) length		m	Max.25	
	Vertical height diff. between O.U. and I.U.		m	Max.15 (Outdoor unit is higher) / Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP16)	Hole ϕ20 x 5 pcs
Drain pump, max lift height			mm	-	-
Recommended breaker size			A	16	
L.R.A. (Locked rotor ampere)			A	3.0	
Interconnecting wires		Size x Core number		1.5mm^2 x 4 cores (Including earth cable) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4
Standard accessories				Mounting kit, Clean filter (Allergen clear filter x 1, Photocatalytic washable deodorizing filter x 1)	
Option parts				Interface kit (SC-BIKN2-E)	

Notes (1) The data are measured at the following conditions. The pipe length is 5m.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	-	2°C	1°C	ISO5151-H2

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
(4) Select the breaker size according to the own national standard.

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#

Item			Model	SRK35ZSX-WB	
				Indoor unit SRK35ZSX-WB	Outdoor unit SRC35ZSX-W
Power source				1 Phase, 220 - 240V, 50Hz / 220V, 60Hz	
Operation data	Nominal cooling capacity (range)		kW	3.5 (0.9(Min.) - 4.5 (Max.))	
	Nominal heating capacity (range)		kW	4.3 (0.8(Min.) - 6.8 (Max.))	
	Heating capacity (H2)		kW	—	
	Power consumption	Cooling	kW	0.74 (0.16 - 1.27)	
		Heating		0.90 (0.14 - 1.87)	
		Heating (H2)		—	
	Max power consumption			1.92	
	Running current	Cooling	A	3.7 / 3.5 / 3.4 (220/ 230/ 240V)	
		Heating		4.4 / 4.3 / 4.1 (220/ 230/ 240V)	
	Inrush current, max current			4.3 Max. 9	
	Power factor	Cooling	%	91	
		Heating		92	
	EER	Cooling		4.73	
	COP	Heating		4.78	
		Heating (H2)		—	
	Sound power level	Cooling	dB(A)	58	61
		Heating		58	62
	Sound pressure level	Cooling		Hi: 43 Me: 35 Lo: 26 ULo: 19	48
		Heating		Hi: 42 Me: 35 Lo: 28 ULo: 19	47
	Silent mode sound pressure level			-	Cooling:38 / Heating:43
Exterior dimensions (Height x Width x Depth)			mm	305 x 920 x 220	640 x 800(+71) x 290
Exterior appearance (Equivalent color)				Fine snow (8.0Y 9.3/0.1), (RAL:9003) Black (4.0PB 2.44/0.25), (RAL:9011)	Stucco white Munsell: (4.2Y 7.5/1.1), RAL:7044
Net weight			kg	13	43.0
Compressor type & Quantity				-	RMT5111SWE3(Twin rotary type) x 1
Compressor motor (Starting method)			kW	-	0.90 (Inverter driven)
Refrigerant oil (Amount, type)			ℓ	-	0.35 (DIAMOND FREEZE MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 1.20 in outdoor unit (Incl. the amount for the piping of 15m)	
Heat exchanger				Louver fins & inner grooved tubing	M fins & inner grooved tubing
Refrigerant control				Capillary tubes + Electronic expansion valve	
Fan type & Quantity				Tangential fan x 1	Propeller fan x 1
Fan motor (Starting method)			W	42 x1 (Direct drive)	34 x1 (Direct drive)
Air flow		Cooling	m^3/min	Hi: 13.1 Me: 10.8 Lo: 7.3 ULo: 5.0	36.0
		Heating		Hi: 13.9 Me: 11.8 Lo: 8.6 ULo: 5.4	31.0
Available external static pressure			Pa	0	0
Outside air intake				Not possible	-
Air filter, Quality / Quantity				Polypropylene net (Washable) x 2	-
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heater				-	-
Operation control	Remote control			Wireless-remote control	
	Room temperature control			Microcomputer thermostat	
	Operation display			RUN: Green , TIMER: Yellow , ECO: Blue	
Safety equipments				Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Indoor fan motor error protection, Heating overload protection(High pressure control), Cooling overload protection	
Installation data	Refrigerant piping size (O.D)		mm	Liquid line: ϕ6.35 (1/4")	Gas line: ϕ9.52 (3/8")
	Connecting method			Flare connection	Flare connection
	Attached length of piping		m	Liquid line : 0.55 / Gas line : 0.48	-
	Insulation for piping			Necessary (Both sides), independent	
	Refrigerant line (one way) length		m	Max.25	
	Vertical height diff. between O.U. and I.U.		m	Max.15 (Outdoor unit is higher) / Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP16)	Hole ϕ20 x 5 pcs
Drain pump, max lift height			mm	-	-
Recommended breaker size			A	16	
L.R.A. (Locked rotor ampere)			A	4.3	
Interconnecting wires		Size x Core number		1.5mm^2 x 4 cores (Including earth cable) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4
Standard accessories				Mounting kit, Clean filter (Allergen clear filter x 1, Photocatalytic washable deodorizing filter x 1)	
Option parts				Interface kit (SC-BIKN2-E)	

Notes (1) The data are measured at the following conditions. The pipe length is 5m.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	-	2°C	1°C	ISO5151-H2

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
(4) Select the breaker size according to the own national standard.

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#

Item			Model	SRK50ZSX-WB	
				Indoor unit SRK50ZSX-WB	Outdoor unit SRC50ZSX-W
Power source				1 Phase, 220 - 240V, 50Hz / 220V, 60Hz	
Operation data	Nominal cooling capacity (range)		kW	5.0 (1.0(Min.) - 6.2 (Max.))	
	Nominal heating capacity (range)		kW	6.0 (0.8(Min.) - 8.2 (Max.))	
	Heating capacity (H2)		kW	—	
	Power consumption	Cooling	kW	1.24 (0.19 - 1.90)	
		Heating		1.36 (0.20 - 2.46)	
		Heating (H2)		—	
	Max power consumption			2.90	
	Running current	Cooling	A	5.7 / 5.4 / 5.2 (220/ 230/ 240V)	
		Heating		6.2 / 6.0 / 5.7 (220/ 230/ 240V)	
	Inrush current, max current			5.0 Max.15	
	Power factor	Cooling	%	99	
		Heating		99	
	EER	Cooling		4.03	
	COP	Heating		4.41	
		Heating (H2)		—	
	Sound power level	Cooling	dB(A)	59	63
		Heating		62	61
	Sound pressure level	Cooling		Hi: 44 Me: 39 Lo: 31 ULo: 22	51
		Heating		Hi: 47 Me: 41 Lo: 33 ULo: 23	49
	Silent mode sound pressure level			-	Cooling:42 / Heating:43
Exterior dimensions (Height x Width x Depth)			mm	305 x 920 x 220	640 x 800(+71) x 290
Exterior appearance (Equivalent color)				Fine snow (8.0Y 9.3/0.1), (RAL:9003) Black (4.0PB 2.44/0.25), (RAL:9011)	Stucco white Munsell : (4.2Y 7.5/1.1), RAL:7044
Net weight			kg	13	45
Compressor type & Quantity				-	RMT5111SWE3(Twin rotary type) x 1
Compressor motor (Starting method)			kW	-	1.50 (Inverter driven)
Refrigerant oil (Amount, type)			ℓ	-	0.45 (DIAMOND FREEZE MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 1.30 in outdoor unit (Incl. the amount for the piping of 15m)	
Heat exchanger				Louver fins & inner grooved tubing	M fins & inner grooved tubing
Refrigerant control				Capillary tubes + Electronic expansion valve	
Fan type & Quantity				Tangential fan x 1	Propeller fan x 1
Fan motor (Starting method)			W	42 x1 (Direct drive)	34 x1 (Direct drive)
Air flow		Cooling	m^3/min	Hi: 14.3 Me: 12.4 Lo: 7.8 ULo: 5.4	39.0
		Heating		Hi: 17.3 Me: 14.3 Lo: 9.8 ULo: 6.2	33.0
Available external static pressure			Pa	0	0
Outside air intake				Not possible	-
Air filter, Quality / Quantity				Polypropylene net (Washable) x 2	-
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heater				-	-
Operation control	Remote control			Wireless remote control	
	Room temperature control			Microcomputer thermostat	
	Operation display			RUN: Green , TIMER: Yellow , ECO: Blue	
Safety equipments				Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Indoor fan motor error protection, Heating overload protection(High pressure control), Cooling overload protection	
Installation data	Refrigerant piping size (O.D)		mm	Liquid line: ϕ6.35 (1/4")	Gas line: ϕ12.7 (1/2")
	Connecting method			Flare connection	Flare connection
	Attached length of piping		m	Liquid line : 0.55 / Gas line : 0.48	-
	Insulation for piping			Necessary (Both sides), independent	
	Refrigerant line (one way) length		m	Max.30	
	Vertical height diff. between O.U. and I.U.		m	Max.20 (Outdoor unit is higher) / Max.20 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP16)	Hole ϕ20 x 5 pcs
Drain pump, max lift height			mm	-	-
Recommended breaker size			A	20	
L.R.A. (Locked rotor ampere)			A	5.0	
Interconnecting wires		Size x Core number		1.5mm^2 x 4 cores (Including earth cable) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4
Standard accessories				Mounting kit, Clean filter (Allergen clear filter x 1, Photocatalytic washable deodorizing filter x 1)	
Option parts				Interface kit (SC-BIKN2-E)	

Notes (1) The data are measured at the following conditions. The pipe length is 5m.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	-	2°C	1°C	ISO5151-H2

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
(4) Select the breaker size according to the own national standard.

Item			Model	SRK60ZSX-WB	
				Indoor unit SRK60ZSX-WB	Outdoor unit SRC60ZSX-W
Power source				1 Phase, 220 - 240V, 50Hz / 220V, 60Hz	
Operation data	Nominal cooling capacity (range)		kW	6.1 (1.0(Min.) - 6.9 (Max.))	
	Nominal heating capacity (range)		kW	6.8 (0.8(Min.) - 8.8 (Max.))	
	Heating capacity (H2)		kW	—	
	Power consumption	Cooling	kW	1.71 (0.19 - 2.50)	
		Heating		1.65 (0.20 - 2.86)	
		Heating (H2)		—	
	Max power consumption			2.90	
	Running current	Cooling	A	7.9 / 7.5 / 7.2 (220/ 230/ 240V)	
		Heating		7.6 / 7.2 / 6.9 (220/ 230/ 240V)	
	Inrush current, max current			5.0 Max. 15	
	Power factor	Cooling	%	99	
		Heating		99	
	EER	Cooling		3.57	
	COP	Heating		4.12	
		Heating (H2)		—	
	Sound power level	Cooling	dB(A)	62	65
		Heating		63	64
	Sound pressure level	Cooling		Hi: 48 Me: 41 Lo: 33 ULo: 22	52
		Heating		Hi: 47 Me: 42 Lo: 34 ULo: 23	53
	Silent mode sound pressure level			-	Cooling:42 / Heating:43
Exterior dimensions (Height x Width x Depth)			mm	305 x 920 x 220	640 x 800(+71) x 290
Exterior appearance (Equivalent color)				Fine snow (8.0Y 9.3/0.1), (RAL:9003) Black (4.0PB 2.44/0.25), (RAL:9011)	Stucco white Munsell : (4.2Y 7.5/1.1), RAL:7044
Net weight			kg	13	45
Compressor type & Quantity				-	RMT5111SWE3(Twin rotary type) x 1
Compressor motor (Starting method)			kW	-	1.50 (Inverter driven)
Refrigerant oil (Amount, type)			ℓ	-	0.45 (DIAMOND FREEZE MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 1.30 in outdoor unit (Incl. the amount for the piping of 15m)	
Heat exchanger				Louver fins & inner grooved tubing	M fins & inner grooved tubing
Refrigerant control				Capillary tubes + Electronic expansion valve	
Fan type & Quantity				Tangential fan x 1	Propeller fan x 1
Fan motor (Starting method)			W	42 x1 (Direct drive)	34 x1 (Direct drive)
Air flow		Cooling	m^3/min	Hi: 16.3 Me: 13.4 Lo: 8.9 ULo: 5.4	41.5
		Heating		Hi: 17.8 Me: 13.7 Lo: 10.9 ULo: 6.2	39.0
Available external static pressure			Pa	0	0
Outside air intake				Not possible	-
Air filter, Quality / Quantity				Polypropylene net (Washable) x 2	-
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heater				-	-
Operation control	Remote control			Wireless remote control	
	Room temperature control			Microcomputer thermostat	
	Operation display			RUN: Green , TIMER: Yellow , ECO: Blue	
Safety equipments				Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Indoor fan motor error protection, Heating overload protection(High pressure control), Cooling overload protection	
Installation data	Refrigerant piping size (O.D)		mm	Liquid line: ϕ6.35 (1/4")	Gas line: ϕ12.7 (1/2")
	Connecting method			Flare connection	Flare connection
	Attached length of piping		m	Liquid line : 0.55 / Gas line : 0.48	-
	Insulation for piping			Necessary (Both sides), independent	
	Refrigerant line (one way) length		m	Max.30	
	Vertical height diff. between O.U. and I.U.		m	Max.20 (Outdoor unit is higher) / Max.20 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP16)	Hole ϕ20 x 5 pcs
Drain pump, max lift height			mm	-	-
Recommended breaker size			A	20	
L.R.A. (Locked rotor ampere)			A	5.0	
Interconnecting wires		Size x Core number		1.5mm^2 x 4 cores (Including earth cable) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4
Standard accessories				Mounting kit, Clean filter (Allergen clear filter x 1, Photocatalytic washable deodorizing filter x 1)	
Option parts				Interface kit (SC-BIKN2-E)	

Notes (1) The data are measured at the following conditions. The pipe length is 5m.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	-	2°C	1°C	ISO5151-H2

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
(4) Select the breaker size according to the own national standard.

Item			Model	SRK20ZSX-WT	
				Indoor unit SRK20ZSX-WT	Outdoor unit SRC20ZSX-W
Power source				1 Phase, 220 - 240V, 50Hz / 220V, 60Hz	
Operation data	Nominal cooling capacity (range)		kW	2.0 (0.9(Min.) - 3.4 (Max.))	
	Nominal heating capacity (range)		kW	2.7 (0.8(Min.) - 5.5 (Max.))	
	Heating capacity (H2)		kW	—	
	Power consumption	Cooling	kW	0.31 (0.16 - 0.76)	
		Heating		0.47 (0.14 - 1.36)	
		Heating (H2)		—	
	Max power consumption			1.92	
	Running current	Cooling	A	1.9 / 1.8 / 1.7 (220/ 230/ 240V)	
		Heating		2.6 / 2.5 / 2.4 (220/ 230/ 240V)	
	Inrush current, max current			2.5 Max. 9	
	Power factor	Cooling	%	76	
		Heating		81	
	EER	Cooling		6.45	
	COP	Heating		5.74	
		Heating (H2)		—	
	Sound power level	Cooling	dB(A)	53	56
		Heating		55	58
	Sound pressure level	Cooling		Hi: 38 Me: 31 Lo: 24 ULo: 19	43
		Heating		Hi: 38 Me: 33 Lo: 25 ULo: 19	45
	Silent mode sound pressure level			-	Cooling:33 / Heating:38
Exterior dimensions (Height x Width x Depth)			mm	305 x 920 x 220	640 x 800(+71) x 290
Exterior appearance (Equivalent color)				Titanium gray(1.6Y 6.59/0.63), (RAL:7048) Black (4.0PB 2.44/0.25), (RAL:9011)	Stucco white Munsell: (4.2Y 7.5/1.1), RAL:7044
Net weight			kg	13	43.0
Compressor type & Quantity				-	RMT5111SWE3(Twin rotary type) x 1
Compressor motor (Starting method)			kW	-	0.75 (Inverter driven)
Refrigerant oil (Amount, type)			ℓ	-	0.35 (DIAMOND FREEZE MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 1.20 in outdoor unit (Incl. the amount for the piping of 15m)	
Heat exchanger				Louver fins & inner grooved tubing	M fins & inner grooved tubing
Refrigerant control				Capillary tubes + Electronic expansion valve	
Fan type & Quantity				Tangential fan x 1	Propeller fan x 1
Fan motor (Starting method)			W	42 x1 (Direct drive)	34 x1 (Direct drive)
Air flow		Cooling	m^3/min	Hi: 11.3 Me: 9.1 Lo: 6.0 ULo: 5.0	31.0
		Heating		Hi: 12.2 Me: 10.3 Lo: 7.2 ULo: 5.4	31.0
Available external static pressure			Pa	0	0
Outside air intake				Not possible	-
Air filter, Quality / Quantity				Polypropylene net (Washable) x 2	-
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heater				-	-
Operation control	Remote control			Wireless-remote control	
	Room temperature control			Microcomputer thermostat	
	Operation display			RUN: Green , TIMER: Yellow , ECO: Blue	
Safety equipments				Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Indoor fan motor error protection, Heating overload protection(High pressure control), Cooling overload protection	
Installation data	Refrigerant piping size (O.D)		mm	Liquid line: ϕ6.35 (1/4")	Gas line: ϕ9.52 (3/8")
	Connecting method			Flare connection	Flare connection
	Attached length of piping		m	Liquid line : 0.55 / Gas line : 0.48	-
	Insulation for piping			Necessary (Both sides), independent	
	Refrigerant line (one way) length		m	Max.25	
	Vertical height diff. between O.U. and I.U.		m	Max.15 (Outdoor unit is higher) / Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP16)	Hole ϕ20 x 5 pcs
Drain pump, max lift height			mm	-	-
Recommended breaker size			A	16	
L.R.A. (Locked rotor ampere)			A	2.5	
Interconnecting wires		Size x Core number		1.5mm² x 4 cores (Including earth cable) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4
Standard accessories				Mounting kit, Clean filter (Allergen clear filter x 1, Photocatalytic washable deodorizing filter x 1)	
Option parts				Interface kit (SC-BIKN2-E)	

Notes (1) The data are measured at the following conditions. The pipe length is 5m.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	-	2°C	1°C	ISO5151-H2

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
(4) Select the breaker size according to the own national standard.

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#

Item			Model	SRK25ZSX-WT	
				Indoor unit SRK25ZSX-WT	Outdoor unit SRC25ZSX-W
Power source				1 Phase, 220 - 240V, 50Hz / 220V, 60Hz	
Operation data	Nominal cooling capacity (range)		kW	2.5 (0.9(Min.) - 3.8 (Max.))	
	Nominal heating capacity (range)		kW	3.2 (0.8(Min.) - 6.0 (Max.))	
	Heating capacity (H2)		kW	—	
	Power consumption	Cooling	kW	0.44 (0.16 - 0.91)	
		Heating		0.59 (0.14 - 1.54)	
		Heating (H2)		—	
	Max power consumption			1.92	
	Running current	Cooling	A	2.5 / 2.4 / 2.3 (220/ 230/ 240V)	
		Heating		3.2 / 3.0 / 2.9 (220/ 230/ 240V)	
	Inrush current, max current			3.0 Max. 9	
	Power factor	Cooling	%	80	
		Heating		85	
	EER	Cooling		5.68	
	COP	Heating		5.42	
		Heating (H2)		—	
	Sound power level	Cooling	dB(A)	55	57
		Heating		56	58
	Sound pressure level	Cooling		Hi: 39 Me: 33 Lo: 25 ULo: 19	44
		Heating		Hi: 40 Me: 34 Lo: 27 ULo: 19	45
	Silent mode sound pressure level			-	Cooling:35 / Heating:39
Exterior dimensions (Height x Width x Depth)			mm	305 x 920 x 220	640 x 800(+71) x 290
Exterior appearance (Equivalent color)				Titanium gray(1.6Y 6.59/0.63), (RAL:7048) Black (4.0PB 2.44/0.25), (RAL:9011)	Stucco white Munsell: (4.2Y 7.5/1.1), RAL:7044
Net weight			kg	13	43.0
Compressor type & Quantity				-	RMT5111SWE3(Twin rotary type) x 1
Compressor motor (Starting method)			kW	-	0.75 (Inverter driven)
Refrigerant oil (Amount, type)			ℓ	-	0.35 (DIAMOND FREEZE MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 1.20 in outdoor unit (Incl. the amount for the piping of 15m)	
Heat exchanger				Louver fins & inner grooved tubing	M fins & inner grooved tubing
Refrigerant control				Capillary tubes + Electronic expansion valve	
Fan type & Quantity				Tangential fan x 1	Propeller fan x 1
Fan motor (Starting method)			W	42 x1 (Direct drive)	34 x1 (Direct drive)
Air flow		Cooling	m^3/min	Hi: 12.2 Me: 10.0 Lo: 6.7 ULo: 5.0	31.0
		Heating		Hi: 12.8 Me: 11.0 Lo: 7.8 ULo: 5.4	31.0
Available external static pressure			Pa	0	0
Outside air intake				Not possible	-
Air filter, Quality / Quantity				Polypropylene net (Washable) x 2	-
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heater				-	-
Operation control	Remote control			Wireless-remote control	
	Room temperature control			Microcomputer thermostat	
	Operation display			RUN: Green , TIMER: Yellow , ECO: Blue	
Safety equipments				Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Indoor fan motor error protection, Heating overload protection(High pressure control), Cooling overload protection	
Installation data	Refrigerant piping size (O.D)		mm	Liquid line: ϕ6.35 (1/4")	Gas line: ϕ9.52 (3/8")
	Connecting method			Flare connection	Flare connection
	Attached length of piping		m	Liquid line : 0.55 / Gas line : 0.48	-
	Insulation for piping			Necessary (Both sides), independent	
	Refrigerant line (one way) length		m	Max.25	
	Vertical height diff. between O.U. and I.U.		m	Max.15 (Outdoor unit is higher) / Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP16)	Hole ϕ20 x 5 pcs
Drain pump, max lift height			mm	-	-
Recommended breaker size			A	16	
L.R.A. (Locked rotor ampere)			A	3.0	
Interconnecting wires		Size x Core number		1.5mm^2 x 4 cores (Including earth cable) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4
Standard accessories				Mounting kit, Clean filter (Allergen clear filter x 1, Photocatalytic washable deodorizing filter x 1)	
Option parts				Interface kit (SC-BIKN2-E)	

Notes (1) The data are measured at the following conditions. The pipe length is 5m.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	-	2°C	1°C	ISO5151-H2

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
(4) Select the breaker size according to the own national standard.

Item			Model	SRK35ZSX-WT	
				Indoor unit SRK35ZSX-WT	Outdoor unit SRC35ZSX-W
Power source				1 Phase, 220 - 240V, 50Hz / 220V, 60Hz	
Operation data	Nominal cooling capacity (range)		kW	3.5 (0.9(Min.) - 4.5 (Max.))	
	Nominal heating capacity (range)		kW	4.3 (0.8(Min.) - 6.8 (Max.))	
	Heating capacity (H2)		kW	—	
	Power consumption	Cooling	kW	0.74 (0.16 - 1.27)	
		Heating		0.90 (0.14 - 1.87)	
		Heating (H2)		—	
	Max power consumption			1.92	
	Running current	Cooling	A	3.7 / 3.5 / 3.4 (220/ 230/ 240V)	
		Heating		4.4 / 4.3 / 4.1 (220/ 230/ 240V)	
	Inrush current, max current			4.3 Max. 9	
	Power factor	Cooling	%	91	
		Heating		92	
	EER	Cooling		4.73	
	COP	Heating		4.78	
		Heating (H2)		—	
	Sound power level	Cooling	dB(A)	58	61
		Heating		58	62
	Sound pressure level	Cooling		Hi: 43 Me: 35 Lo: 26 ULo: 19	48
		Heating		Hi: 42 Me: 35 Lo: 28 ULo: 19	47
	Silent mode sound pressure level			-	Cooling:38 / Heating:43
Exterior dimensions (Height x Width x Depth)			mm	305 x 920 x 220	640 x 800(+71) x 290
Exterior appearance (Equivalent color)				Titanium gray(1.6Y 6.59/0.63), (RAL:7048) Black (4.0PB 2.44/0.25), (RAL:9011)	Stucco white Munsell: (4.2Y 7.5/1.1), RAL:7044
Net weight			kg	13	43.0
Compressor type & Quantity				-	RMT5111SWE3(Twin rotary type) x 1
Compressor motor (Starting method)			kW	-	0.90 (Inverter driven)
Refrigerant oil (Amount, type)			ℓ	-	0.35 (DIAMOND FREEZE MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 1.20 in outdoor unit (Incl. the amount for the piping of 15m)	
Heat exchanger				Louver fins & inner grooved tubing	M fins & inner grooved tubing
Refrigerant control				Capillary tubes + Electronic expansion valve	
Fan type & Quantity				Tangential fan x 1	Propeller fan x 1
Fan motor (Starting method)			W	42 x1 (Direct drive)	34 x1 (Direct drive)
Air flow		Cooling	m^3/min	Hi: 13.1 Me: 10.8 Lo: 7.3 ULo: 5.0	36.0
		Heating		Hi: 13.9 Me: 11.8 Lo: 8.6 ULo: 5.4	31.0
Available external static pressure			Pa	0	0
Outside air intake				Not possible	-
Air filter, Quality / Quantity				Polypropylene net (Washable) x 2	-
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heater				-	-
Operation control	Remote control			Wireless-remote control	
	Room temperature control			Microcomputer thermostat	
	Operation display			RUN: Green , TIMER: Yellow , ECO: Blue	
Safety equipments				Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Indoor fan motor error protection, Heating overload protection(High pressure control), Cooling overload protection	
Installation data	Refrigerant piping size (O.D)		mm	Liquid line: ϕ6.35 (1/4")	Gas line: ϕ9.52 (3/8")
	Connecting method			Flare connection	Flare connection
	Attached length of piping		m	Liquid line : 0.55 / Gas line : 0.48	-
	Insulation for piping			Necessary (Both sides), independent	
	Refrigerant line (one way) length		m	Max.25	
	Vertical height diff. between O.U. and I.U.		m	Max.15 (Outdoor unit is higher) / Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP16)	Hole ϕ20 x 5 pcs
Drain pump, max lift height			mm	-	-
Recommended breaker size			A	16	
L.R.A. (Locked rotor ampere)			A	4.3	
Interconnecting wires		Size x Core number		1.5mm² x 4 cores (Including earth cable) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4
Standard accessories				Mounting kit, Clean filter (Allergen clear filter x 1, Photocatalytic washable deodorizing filter x 1)	
Option parts				Interface kit (SC-BIKN2-E)	

Notes (1) The data are measured at the following conditions. The pipe length is 5m.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	-	2°C	1°C	ISO5151-H2

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
(4) Select the breaker size according to the own national standard.

Item			Model	SRK50ZSX-WT	
				Indoor unit SRK50ZSX-WT	Outdoor unit SRC50ZSX-W
Power source				1 Phase, 220 - 240V, 50Hz / 220V, 60Hz	
Operation data	Nominal cooling capacity (range)		kW	5.0 (1.0(Min.) - 6.2 (Max.))	
	Nominal heating capacity (range)		kW	6.0 (0.8(Min.) - 8.2 (Max.))	
	Heating capacity (H2)		kW	—	
	Power consumption	Cooling	kW	1.24 (0.19 - 1.90)	
		Heating		1.36 (0.20 - 2.46)	
		Heating (H2)		—	
	Max power consumption			2.90	
	Running current	Cooling	A	5.7 / 5.4 / 5.2 (220/ 230/ 240V)	
		Heating		6.2 / 6.0 / 5.7 (220/ 230/ 240V)	
	Inrush current, max current			5.0 Max.15	
	Power factor	Cooling	%	99	
		Heating		99	
	EER	Cooling		4.03	
	COP	Heating		4.41	
		Heating (H2)		—	
	Sound power level	Cooling	dB(A)	59	63
		Heating		62	61
	Sound pressure level	Cooling		Hi: 44 Me: 39 Lo: 31 ULo: 22	51
		Heating		Hi: 47 Me: 41 Lo: 33 ULo: 23	49
	Silent mode sound pressure level			-	Cooling:42 / Heating:43
Exterior dimensions (Height x Width x Depth)			mm	305 x 920 x 220	640 x 800(+71) x 290
Exterior appearance (Equivalent color)				Titanium gray(1.6Y 6.59/0.63), (RAL:7048) Black (4.0PB 2.44/0.25), (RAL:9011)	Stucco white Munsell : (4.2Y 7.5/1.1), RAL:7044
Net weight			kg	13	45
Compressor type & Quantity				-	RMT5111SWE3(Twin rotary type) x 1
Compressor motor (Starting method)			kW	-	1.50 (Inverter driven)
Refrigerant oil (Amount, type)			ℓ	-	0.45 (DIAMOND FREEZE MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 1.30 in outdoor unit (Incl. the amount for the piping of 15m)	
Heat exchanger				Louver fins & inner grooved tubing	M fins & inner grooved tubing
Refrigerant control				Capillary tubes + Electronic expansion valve	
Fan type & Quantity				Tangential fan x 1	Propeller fan x 1
Fan motor (Starting method)			W	42 x1 (Direct drive)	34 x1 (Direct drive)
Air flow		Cooling	m^3/min	Hi: 14.3 Me: 12.4 Lo: 7.8 ULo: 5.4	39.0
		Heating		Hi: 17.3 Me: 14.3 Lo: 9.8 ULo: 6.2	33.0
Available external static pressure			Pa	0	0
Outside air intake				Not possible	-
Air filter, Quality / Quantity				Polypropylene net (Washable) x 2	-
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heater				-	-
Operation control	Remote control			Wireless remote control	
	Room temperature control			Microcomputer thermostat	
	Operation display			RUN: Green , TIMER: Yellow , ECO: Blue	
Safety equipments				Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Indoor fan motor error protection, Heating overload protection(High pressure control), Cooling overload protection	
Installation data	Refrigerant piping size (O.D)		mm	Liquid line: ϕ6.35 (1/4")	Gas line: ϕ12.7 (1/2")
	Connecting method			Flare connection	Flare connection
	Attached length of piping		m	Liquid line : 0.55 / Gas line : 0.48	-
	Insulation for piping			Necessary (Both sides), independent	
	Refrigerant line (one way) length		m	Max.30	
	Vertical height diff. between O.U. and I.U.		m	Max.20 (Outdoor unit is higher) / Max.20 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP16)	Hole ϕ20 x 5 pcs
Drain pump, max lift height			mm	-	-
Recommended breaker size			A	20	
L.R.A. (Locked rotor ampere)			A	5.0	
Interconnecting wires		Size x Core number		1.5mm^2 x 4 cores (Including earth cable) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4
Standard accessories				Mounting kit, Clean filter (Allergen clear filter x 1, Photocatalytic washable deodorizing filter x 1)	
Option parts				Interface kit (SC-BIKN2-E)	

Notes (1) The data are measured at the following conditions. The pipe length is 5m.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	-	2°C	1°C	ISO5151-H2

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
(4) Select the breaker size according to the own national standard.

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#

Item			Model	SRK60ZSX-WT	
				Indoor unit SRK60ZSX-WT	Outdoor unit SRC60ZSX-W
Power source				1 Phase, 220 - 240V, 50Hz / 220V, 60Hz	
Operation data	Nominal cooling capacity (range)		kW	6.1 (1.0(Min.) - 6.9 (Max.))	
	Nominal heating capacity (range)		kW	6.8 (0.8(Min.) - 8.8 (Max.))	
	Heating capacity (H2)		kW	—	
	Power consumption	Cooling	kW	1.71 (0.19 - 2.50)	
		Heating		1.65 (0.20 - 2.86)	
		Heating (H2)		—	
	Max power consumption			2.90	
	Running current	Cooling	A	7.9 / 7.5 / 7.2 (220/ 230/ 240V)	
		Heating		7.6 / 7.2 / 6.9 (220/ 230/ 240V)	
	Inrush current, max current			5.0 Max. 15	
	Power factor	Cooling	%	99	
		Heating		99	
	EER	Cooling		3.57	
	COP	Heating		4.12	
		Heating (H2)		—	
	Sound power level	Cooling	dB(A)	62	65
		Heating		63	64
	Sound pressure level	Cooling		Hi: 48 Me: 41 Lo: 33 ULo: 22	52
		Heating		Hi: 47 Me: 42 Lo: 34 ULo: 23	53
	Silent mode sound pressure level			-	Cooling:42 / Heating:43
Exterior dimensions (Height x Width x Depth)			mm	305 x 920 x 220	640 x 800(+71) x 290
Exterior appearance (Equivalent color)				Titanium gray(1.6Y 6.59/0.63), (RAL:7048) Black (4.0PB 2.44/0.25), (RAL:9011)	Stucco white Munsell : (4.2Y 7.5/1.1), RAL:7044
Net weight			kg	13	45
Compressor type & Quantity				-	RMT5111SWE3(Twin rotary type) x 1
Compressor motor (Starting method)			kW	-	1.50 (Inverter driven)
Refrigerant oil (Amount, type)			ℓ	-	0.45 (DIAMOND FREEZE MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 1.30 in outdoor unit (Incl. the amount for the piping of 15m)	
Heat exchanger				Louver fins & inner grooved tubing	M fins & inner grooved tubing
Refrigerant control				Capillary tubes + Electronic expansion valve	
Fan type & Quantity				Tangential fan x 1	Propeller fan x 1
Fan motor (Starting method)			W	42 x1 (Direct drive)	34 x1 (Direct drive)
Air flow		Cooling	m^3/min	Hi: 16.3 Me: 13.4 Lo: 8.9 ULo: 5.4	41.5
		Heating		Hi: 17.8 Me: 13.7 Lo: 10.9 ULo: 6.2	39.0
Available external static pressure			Pa	0	0
Outside air intake				Not possible	-
Air filter, Quality / Quantity				Polypropylene net (Washable) x 2	-
Shock & vibration absorber				Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heater				-	-
Operation control	Remote control			Wireless remote control	
	Room temperature control			Microcomputer thermostat	
	Operation display			RUN: Green , TIMER: Yellow , ECO: Blue	
Safety equipments				Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Indoor fan motor error protection, Heating overload protection(High pressure control), Cooling overload protection	
Installation data	Refrigerant piping size (O.D)		mm	Liquid line: ϕ6.35 (1/4")	Gas line: ϕ12.7 (1/2")
	Connecting method			Flare connection	Flare connection
	Attached length of piping		m	Liquid line : 0.55 / Gas line : 0.48	-
	Insulation for piping			Necessary (Both sides), independent	
	Refrigerant line (one way) length		m	Max.30	
	Vertical height diff. between O.U. and I.U.		m	Max.20 (Outdoor unit is higher) / Max.20 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP16)	Hole ϕ20 x 5 pcs
Drain pump, max lift height			mm	-	-
Recommended breaker size			A	20	
L.R.A. (Locked rotor ampere)			A	5.0	
Interconnecting wires		Size x Core number		1.5mm^2 x 4 cores (Including earth cable) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4
Standard accessories				Mounting kit, Clean filter (Allergen clear filter x 1, Photocatalytic washable deodorizing filter x 1)	
Option parts				Interface kit (SC-BIKN2-E)	

Notes (1) The data are measured at the following conditions. The pipe length is 5m.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	-	2°C	1°C	ISO5151-H2

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
(4) Select the breaker size according to the own national standard.

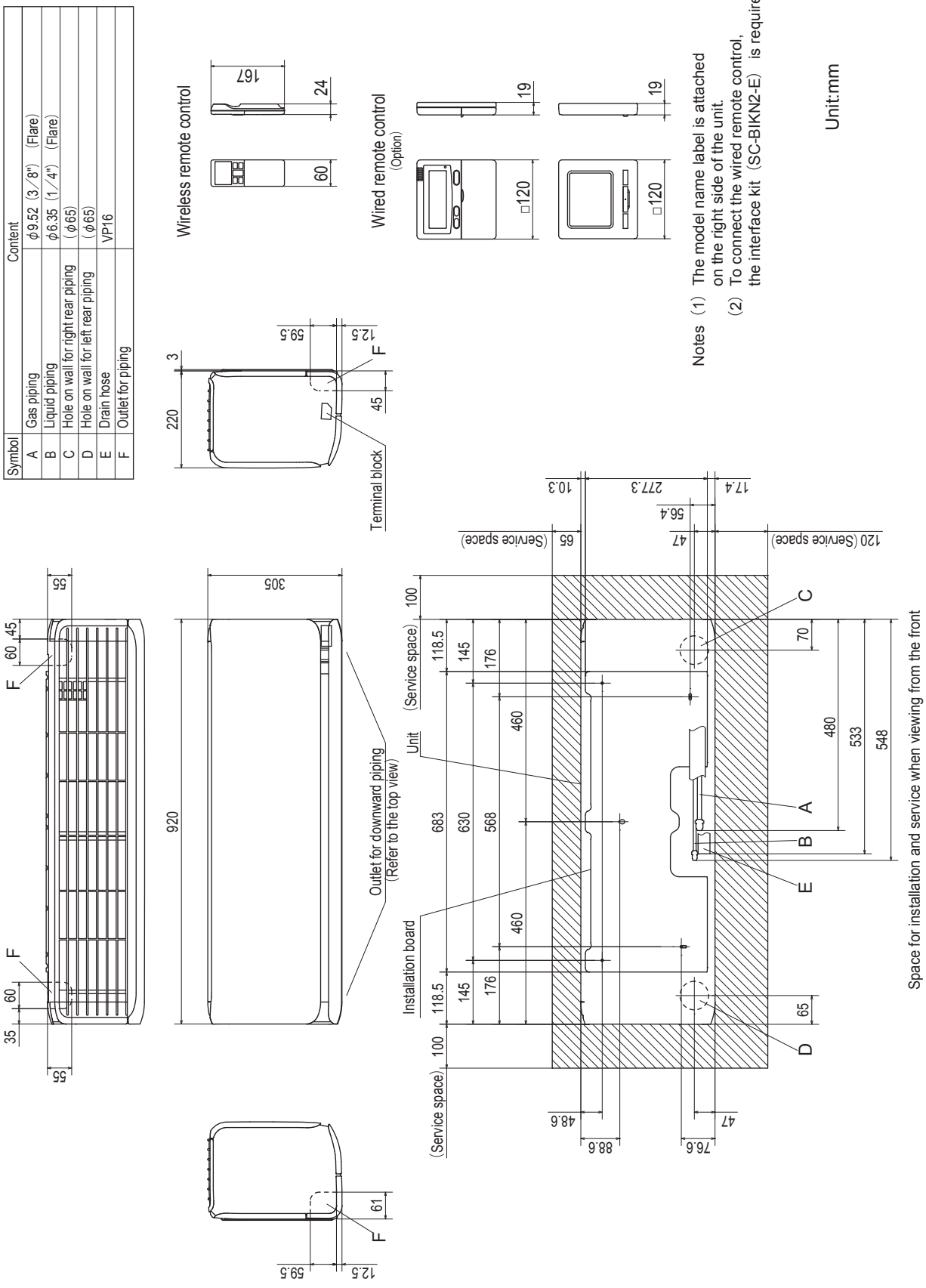
RWA000Z271 B

#

2. EXTERIOR DIMENSIONS

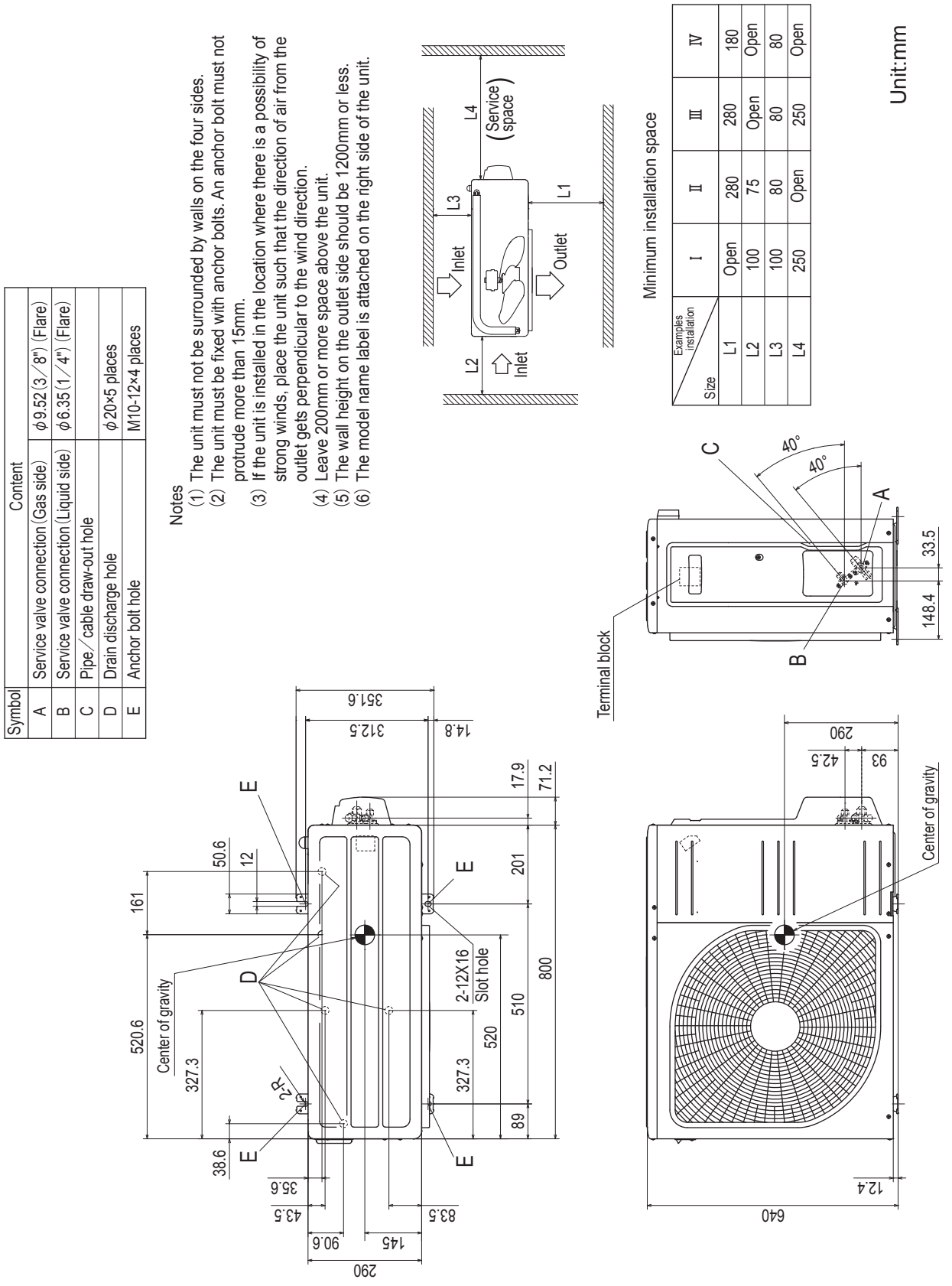
(1) Indoor units

Models SRK20ZSX-W, 25ZSX-W, 35ZSX-W, 50ZSX-W, 60ZSX-W
SRK20ZSX-WB, 25ZSX-WB, 35ZSX-WB, 50ZSX-WB, 60ZSX-WB
SRK20ZSX-WT, 25ZSX-WT, 35ZSX-WT, 50ZSX-WT, 60ZSX-WT

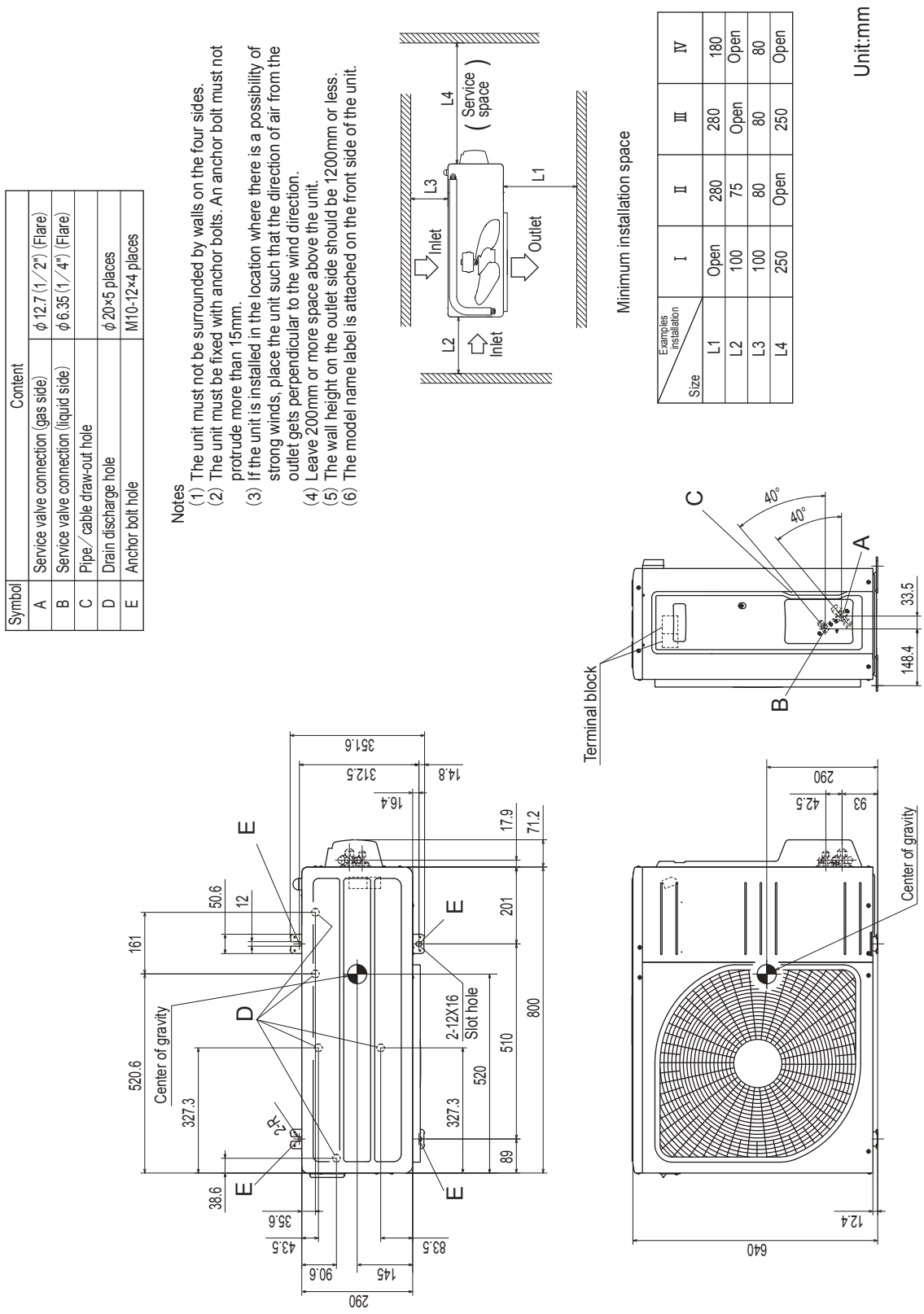


(2) Outdoor units

Models SRC20ZSX-W, 25ZSX-W, 35ZSX-W



Models SRC50ZSX-W, 60ZSX-W



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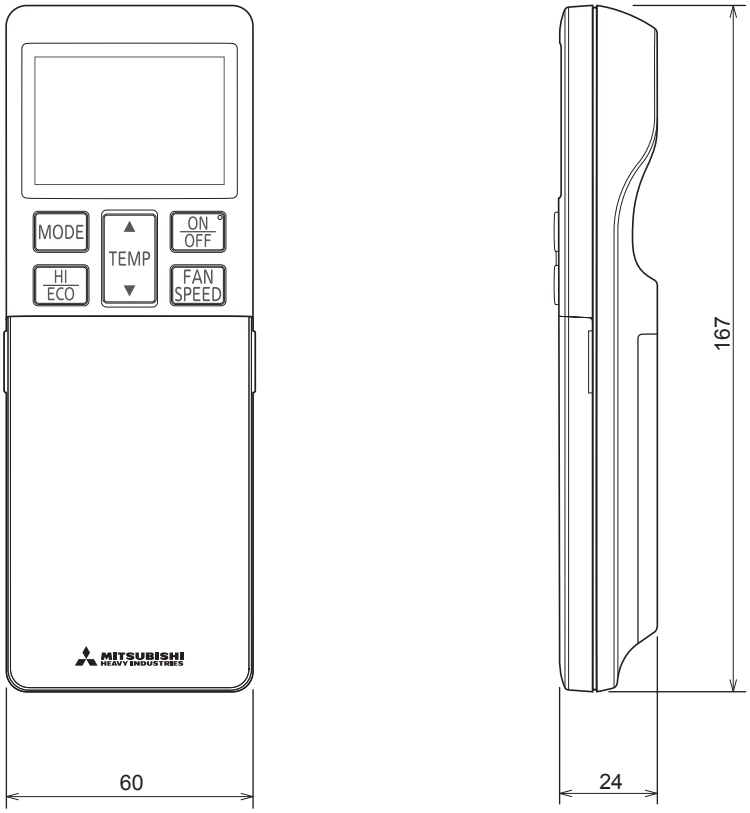
(3) Remote control

(a) Wireless remote control

Unit : mm

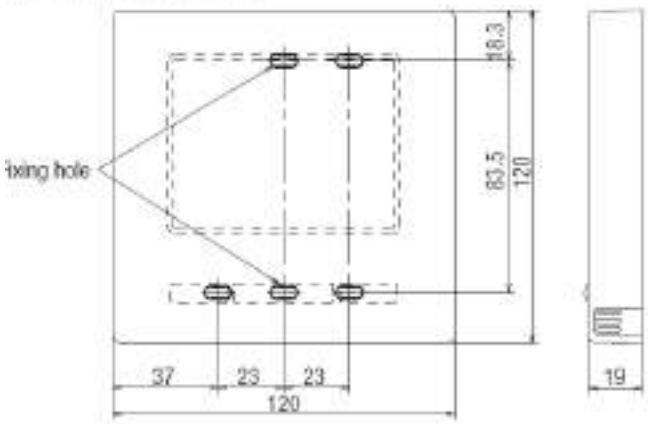


(b) Wired remote control (option parts)

Interface kit (SC-BIKN2-E) is required to use the wired remote control.

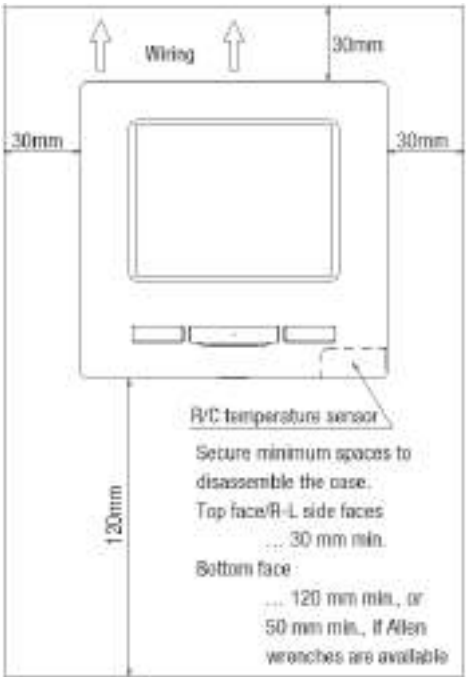
Model RC-EX3

Dimensions (Viewed from front)



Exterior appearance (Munsell color)	Pearl white (N8.5) near equivalent

Installation space



Cautions for selecting installation place

(1) Installation surface must be flat and sufficiently strong. R/C case must not be deformed.

(2) Where the R/C can detect room temperatures accurately This is a must when detecting room temperatures with the temperature sensor of R/C.

- Install the R/C where it can detect the average temperature in the room.
- Install the R/C sufficiently separated from a heat source.
- Install the R/C where it will not be influenced by the turbulence of air when the door is opened or closed.

Select a place where the R/C is not exposed to direct sunlight or blown by winds from the air-conditioner or temperatures on the wall surface will not deviate largely from indoor air temperatures.

R/C cable : 0.3mm^2 × 2 cores

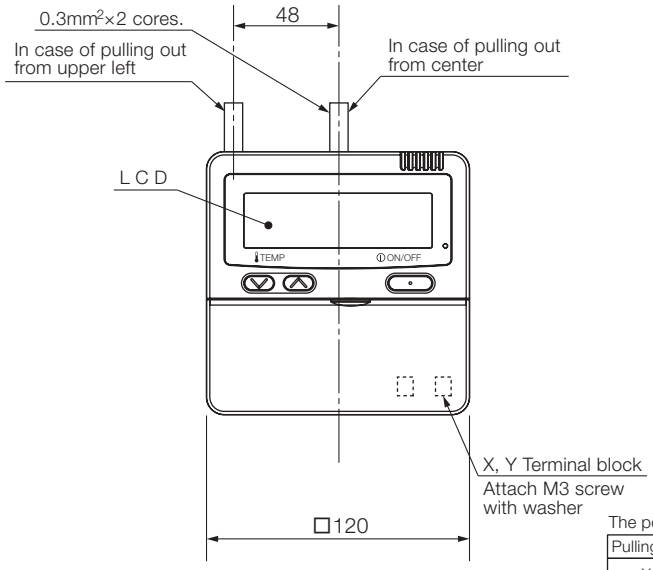
When the cable length is longer than 100 m, the max size for wires used in the R/C case is 0.5 mm^2. Connect them to wires of larger size near the outside of R/C. When wires are connected, take measures to prevent water, etc. from entering inside.

< 200 m	0.5 mm^2 × 2 cores
< 300 m	0.75 mm^2 × 2 cores
< 400 m	1.25 mm^2 × 2 cores
< 600 m	2.0 mm^2 × 2 cores

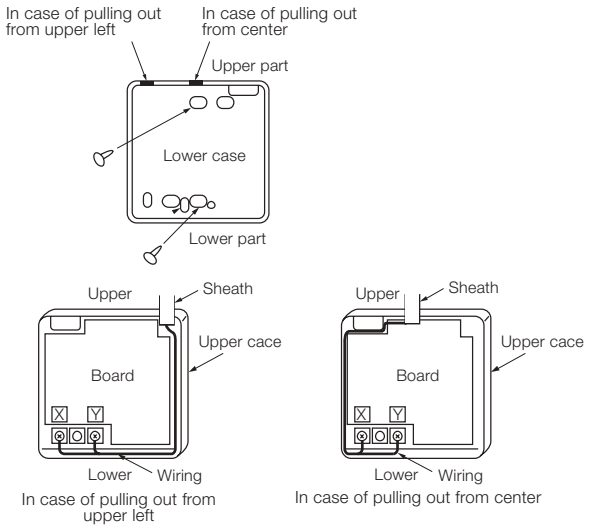
Adapted to **RoHS** directive

Model RC-E5

Exposed mounting

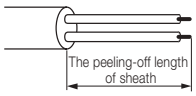


Wiring outlet
Cut off the upper thin part of remote control lower case with a nipper or knife, and grind burrs with a file etc.



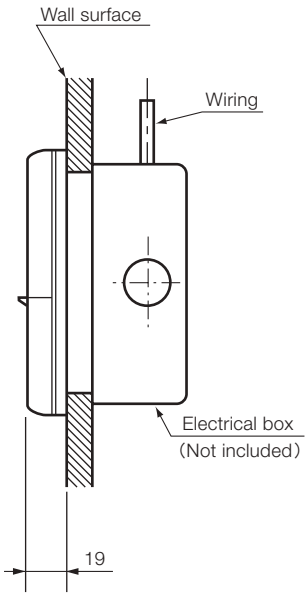
The peeling-off length of sheath

Pulling out from upper left	Pulling out from center
X wiring : 215mm Y wiring : 195mm	X wiring : 170mm Y wiring : 190mm

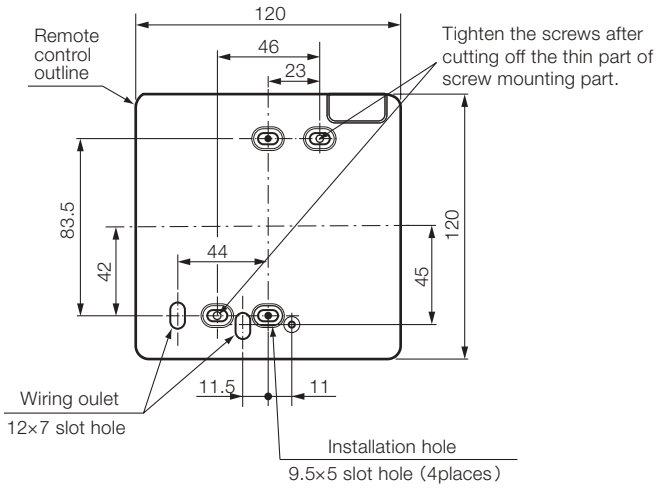


Exterior appearance (Munsell color)	Pearl white (N8.5) near equivalent

Embedded mounting



Remote control installation dimensions



(1) Installation screw for remote control
M4 screw (2 pieces)

Unit:mm

Wiring specifications

(1) If the prolongation is over 100m, change to the size below.
But, wiring in the remote control case should be under 0.5mm². Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

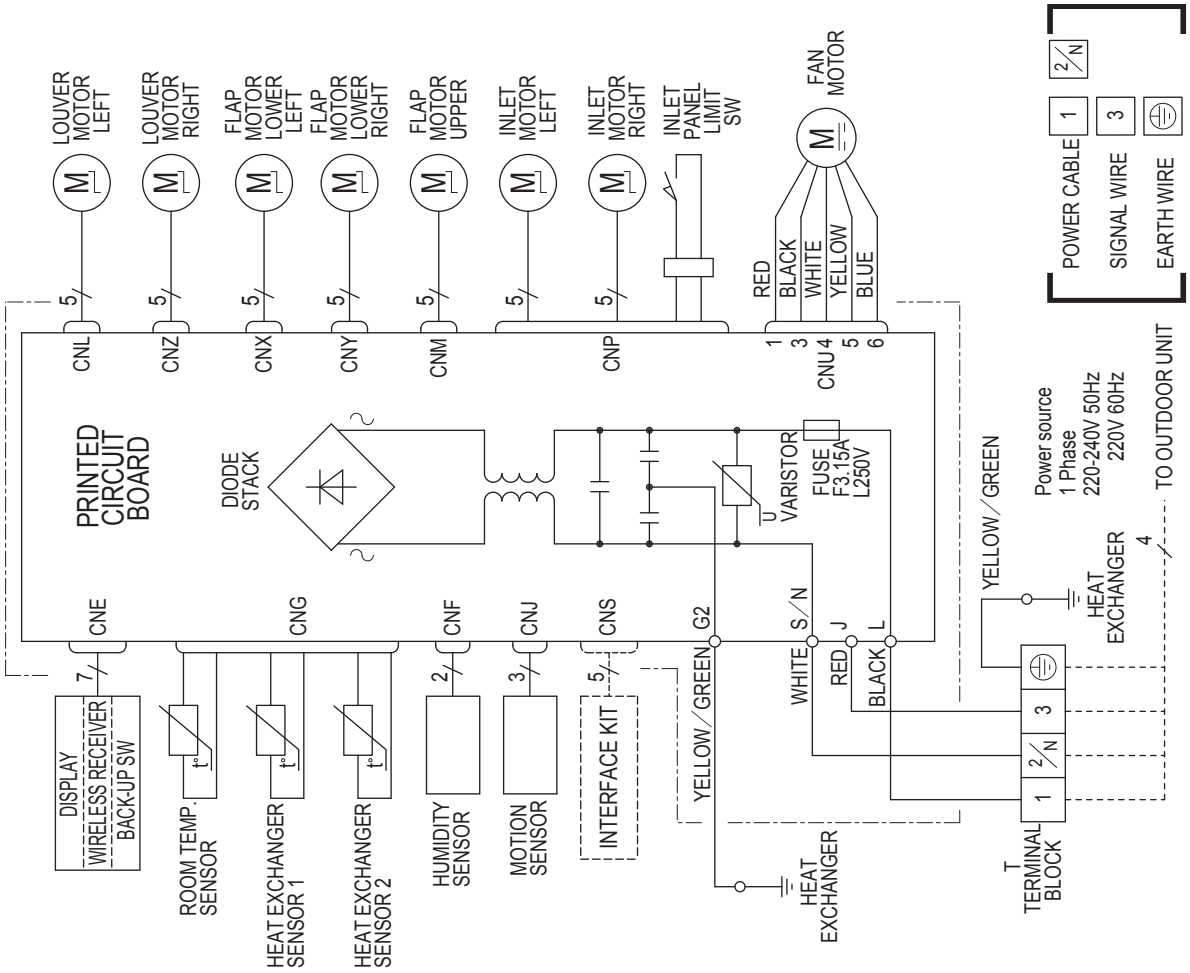
Length	Wiring thickness
100 to 200m	0.5mm²×2 cores
Under 300m	0.75mm²×2 cores
Under 400m	1.25mm²×2 cores
Under 600m	2.0mm²×2 cores

3. ELECTRICAL WIRING

(1) Indoor units

Models SRK20ZSX-W, 25ZSX-W, 35ZSX-W, 50ZSX-W, 60ZSX-W
SRK20ZSX-WB, 25ZSX-WB, 35ZSX-WB, 50ZSX-WB, 60ZSX-WB
SRK20ZSX-WT, 25ZSX-WT, 35ZSX-WT, 50ZSX-WT, 60ZSX-WT

Item	Description
CNE	Connector
CNF	
CNG	
CNJ	
CNL	
CNM	
CNP	
CNS	
CNU	
CNX	
CNY	
CNZ	



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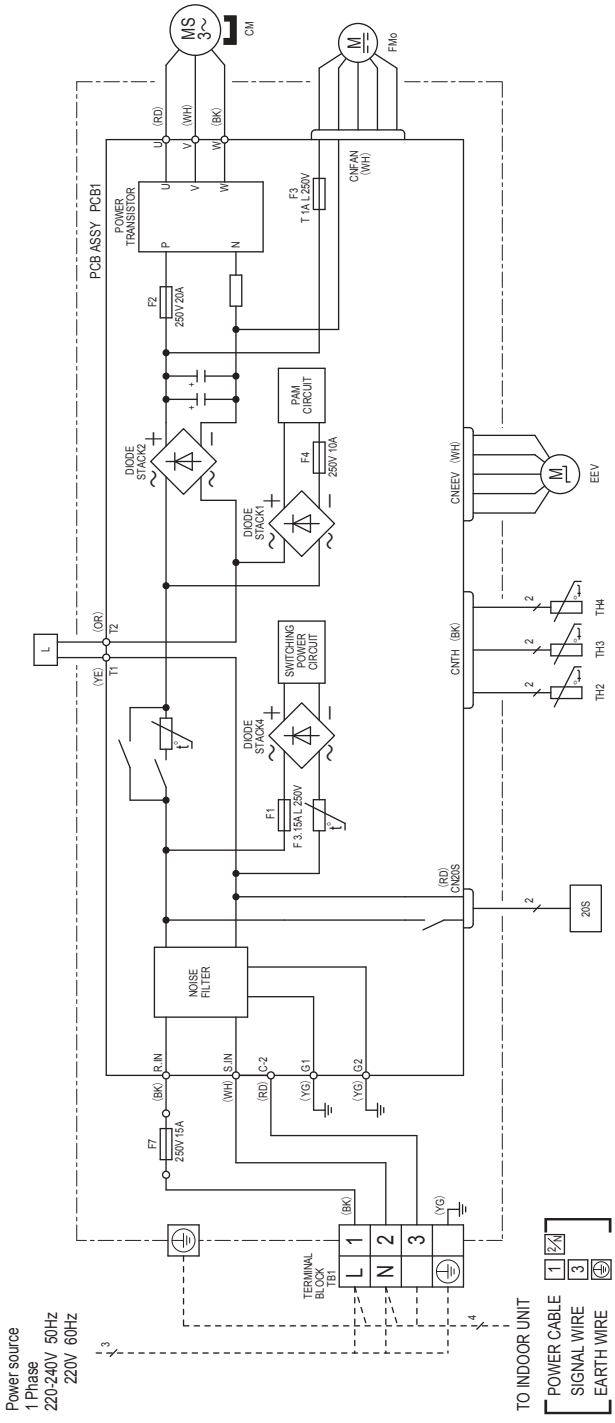
(2) Outdoor units

Models SRC20ZSX-W, 25ZSX-W, 35ZSX-W



Meaning of marks

Item	Description
20S	4-way valve (coil)
CN20S	Connector
CNEEV	
CNFAN	
CNTH	
CM	Compressor motor
EEV	Electric expansion valve (coil)
FMo	Fan motor
L	Reactor
TH2	Heat exchanger sensor
TH3	Outdoor air temp. sensor
TH4	Discharge pipe temp. sensor

Color marks

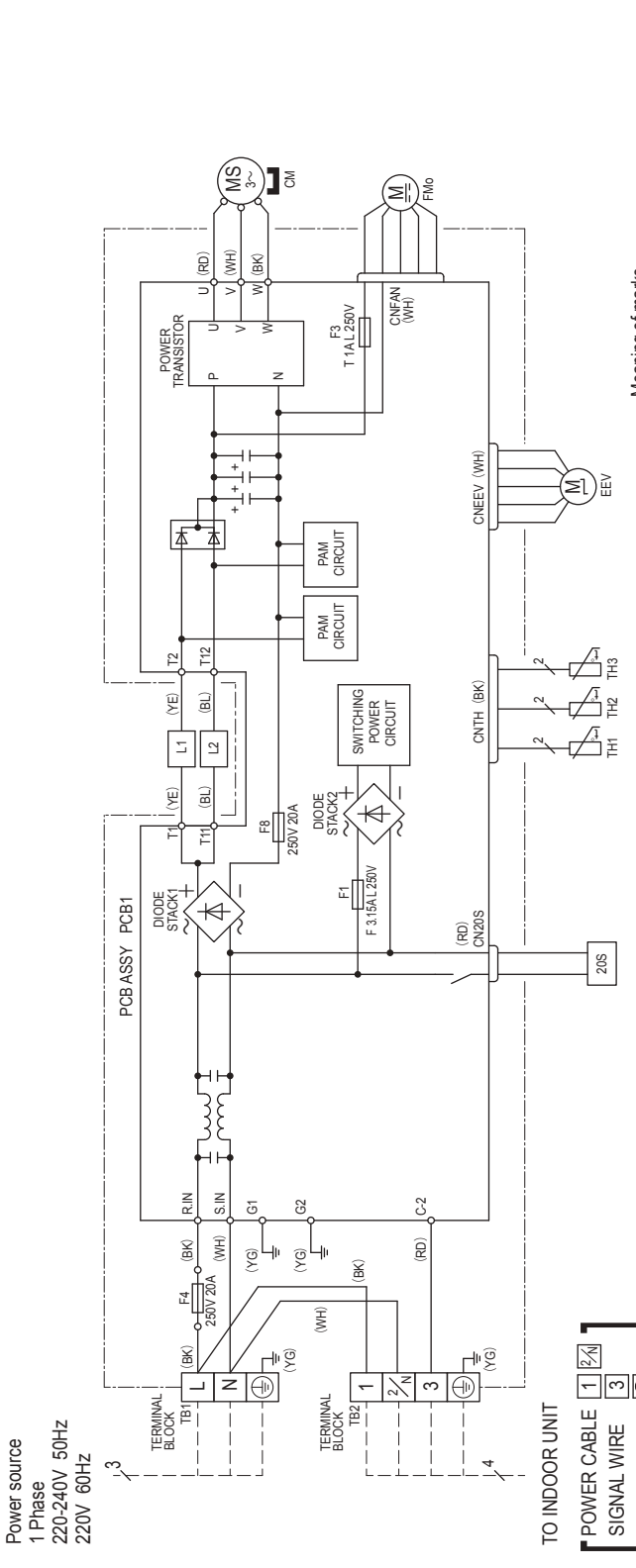
Mark	Color
BK	Black
RD	Red
WH	White
OR	Orange
YE	Yellow
YG	Yellow／Green

Power cable, indoor-outdoor connecting wires

Model name	MAX running current (A)	Power cable wire size x number*	Power cable length (m)	Connecting cable wire size x number*
SRC20ZSX-S SRC25ZSX-S SRC35ZSX-S	9	2.0mm² x 3	22	1.5mm² x 4

* The wire numbers include earth wire (Yellow／Green)
- Switchgear or circuit breaker capacity should be chosen according to national or regional electricity regulations.
- The power cable specifications are based on the assumption that a metal or plastic conduit is used with no more than three cables contained in a conduit and a voltage drop is 2%. For an installation falling outside of these conditions, please follow the national or regional electricity regulations.

Models SRC50ZSX-W, 60ZSX-W



Meaning of marks

Item	Description
20S	Solenoid coil for 4-way valve
CN20S CNEEV CNFAN CNTH	Connector
CM	Compressor motor
EEV	Electric expansion valve (coil)
FMo	Fan motor
L1,2	Reactor
TH1	Heat exchanger sensor
TH2	Outdoor air temp. sensor
TH3	Discharge pipe temp. sensor

Color marks

Mark	Color
BK	Black
BL	Blue
RD	Red
WH	White
YE	Yellow
YG	Yellow／Green

Power cable, indoor-outdoor connecting wires

Model name	MAX running current (A)	Power cable wire size x number*	Power cable length (m)	Connecting cable wire size x number*
SRC50ZSX-W SRC60ZSX-W	15	2.0mm²x 3	13	1.5mm²x 4

* The wire numbers include Earth wire (Yellow／Green)

◦ Switchgear or Circuit breaker capacity should be chosen according to national or regional electricity regulations.

◦ The power cable specifications are based on the assumption that a metal or plastic conduit is used with no more than three cables contained in a conduit and a voltage drop is 2%. For an installation falling outside of these conditions, please follow the national or regional electricity regulations.

4. NOISE LEVEL

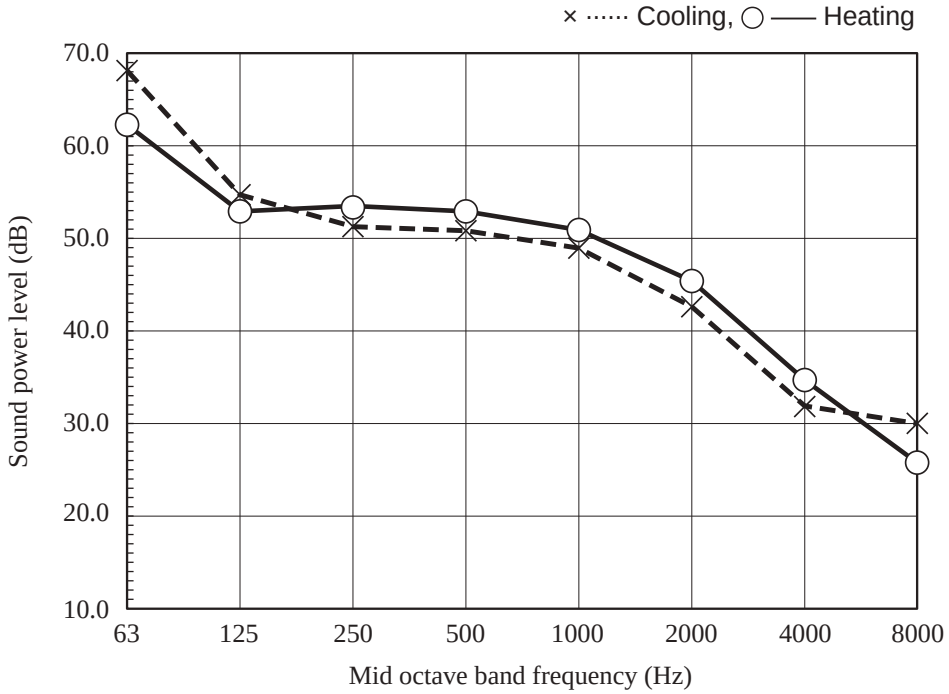
(1) Sound power level

Model SRK20ZSX-W, -WB, -WT

Condition	ISO5151 T1/H1
MODE	Rated capacity value (Hi)

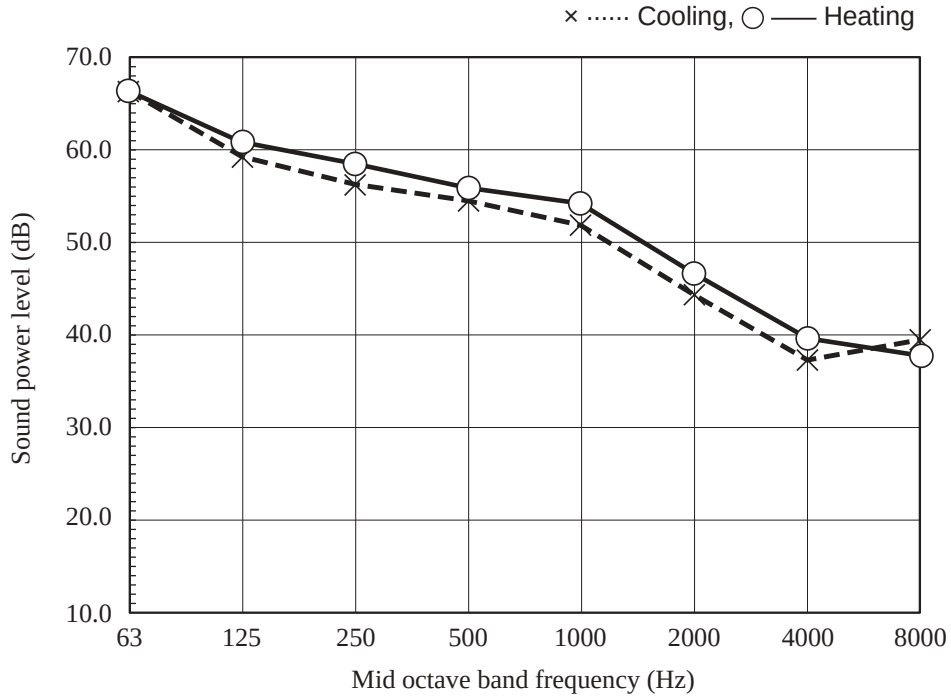
(Indoor Unit)

Model	SRK20ZSX-W, -WB, -WT	
Noise Level	Cooling	53 dB(A)
	Heating	55 dB(A)



(Outdoor Unit)

Model	SRC20ZSX-W	
Noise Level	Cooling	56 dB(A)
	Heating	58 dB(A)

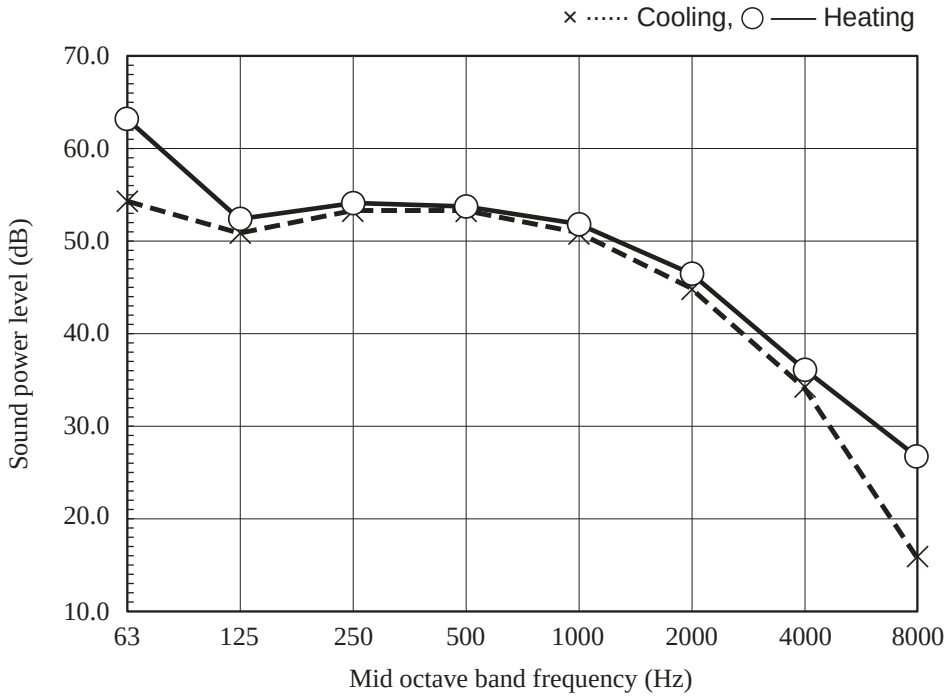


Model SRK25ZSX-W, -WB, -WT

Condition	ISO5151 T1/H1
MODE	Rated capacity value (Hi)

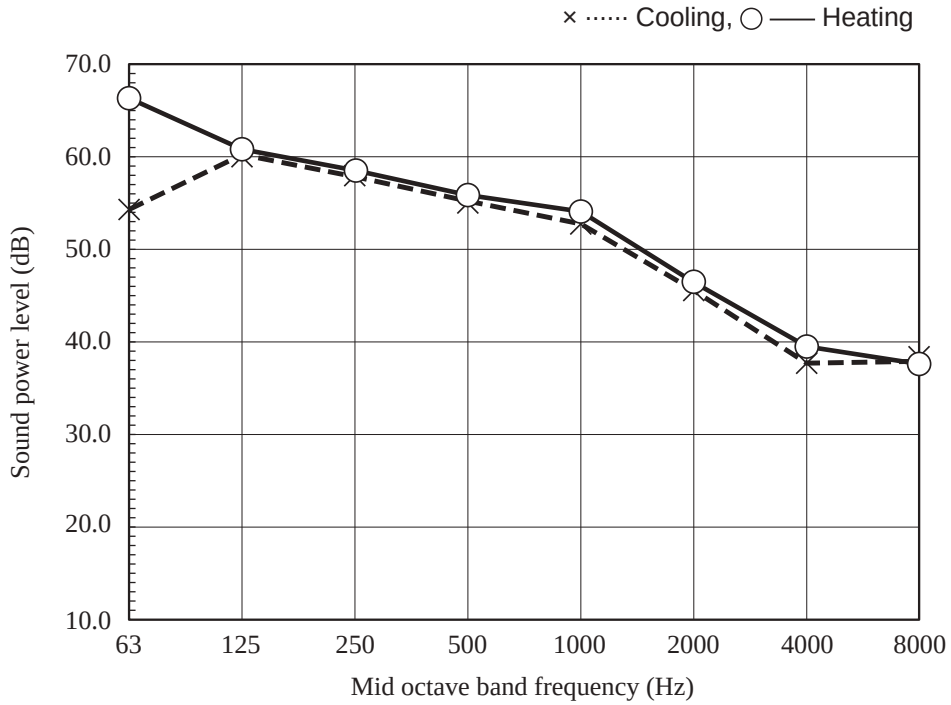
(Indoor Unit)

Model	SRK25ZSX-W, -WB, -WT	
Noise Level	Cooling	55 dB(A)
	Heating	56 dB(A)



(Outdoor Unit)

Model	SRC25ZSX-W	
Noise Level	Cooling	57 dB(A)
	Heating	58 dB(A)



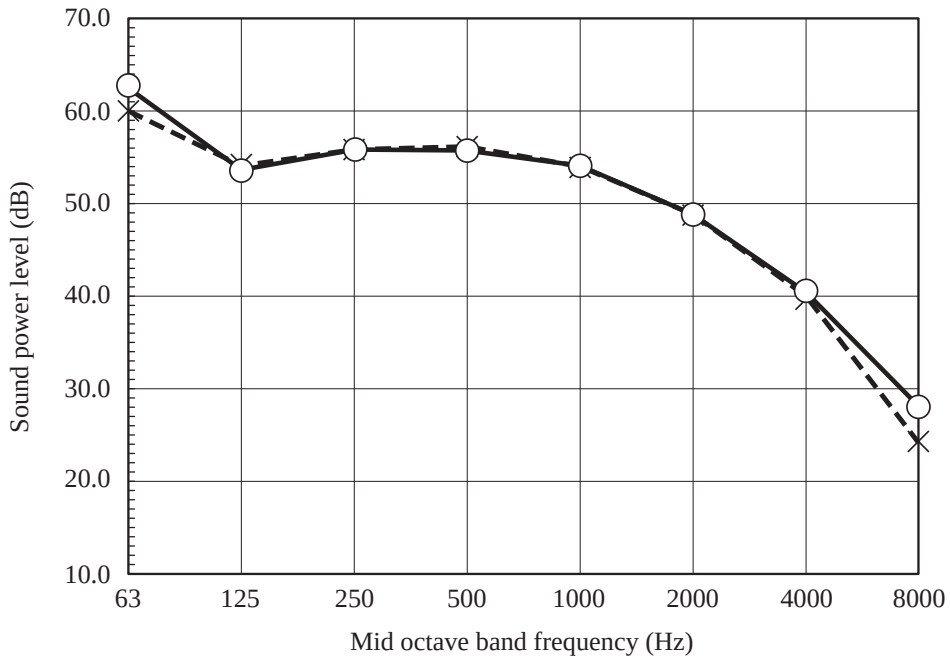
Model SRK35ZSX-W, -WB, -WT

Condition	ISO5151 T1/H1
MODE	Rated capacity value (Hi)

(Indoor Unit)

Model	SRK35ZSX-W, -WB, -WT	
Noise Level	Cooling	58 dB(A)
	Heating	58 dB(A)

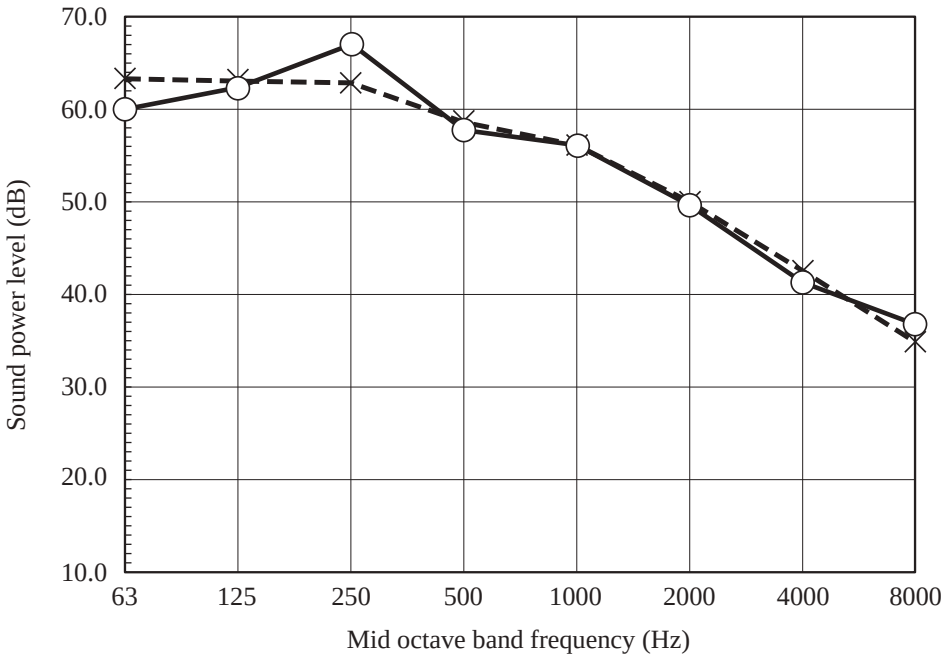
× ····· Cooling, ○ —— Heating



(Outdoor Unit)

Model	SRC35ZSX-W	
Noise Level	Cooling	61 dB(A)
	Heating	62 dB(A)

× ····· Cooling, ○ —— Heating

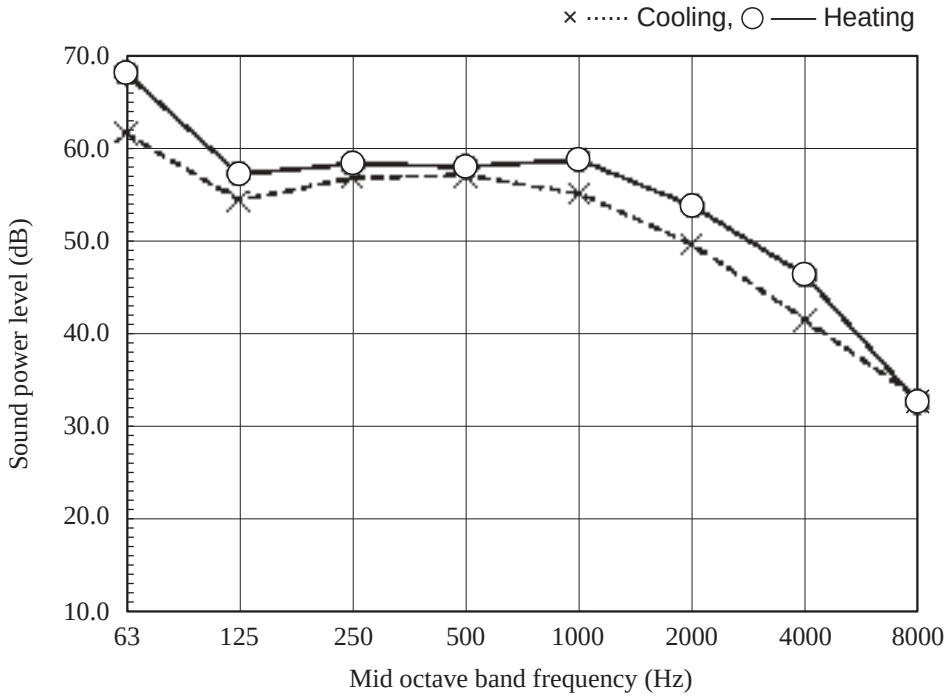


Model SRK50ZSX-W, -WB, -WT

Condition	ISO5151 T1/H1
MODE	Rated capacity value (Hi)

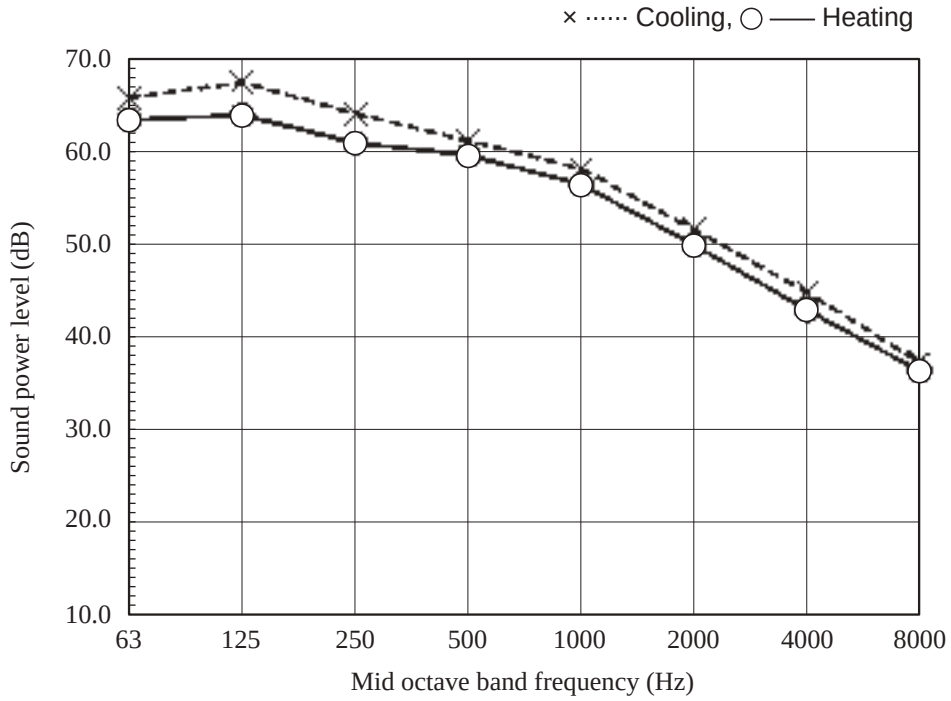
(Indoor Unit)

Model	SRK50ZSX-W, -WB, -WT	
Noise Level	Cooling	59 dB(A)
	Heating	62 dB(A)



(Outdoor Unit)

Model	SRC50ZSX-W	
Noise Level	Cooling	63 dB(A)
	Heating	61 dB(A)



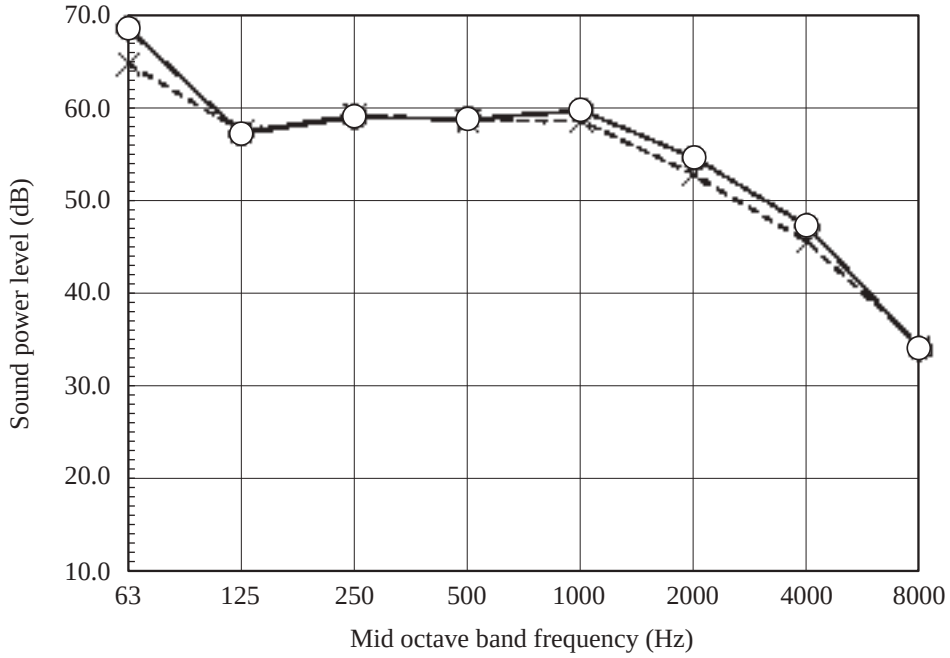
Model SRK60ZSX-W, -WB, -WT

Condition	ISO5151 T1/H1
MODE	Rated capacity value (Hi)

(Indoor Unit)

Model	SRK60ZSX-W, -WB, -WT	
Noise Level	Cooling	62 dB(A)
	Heating	63 dB(A)

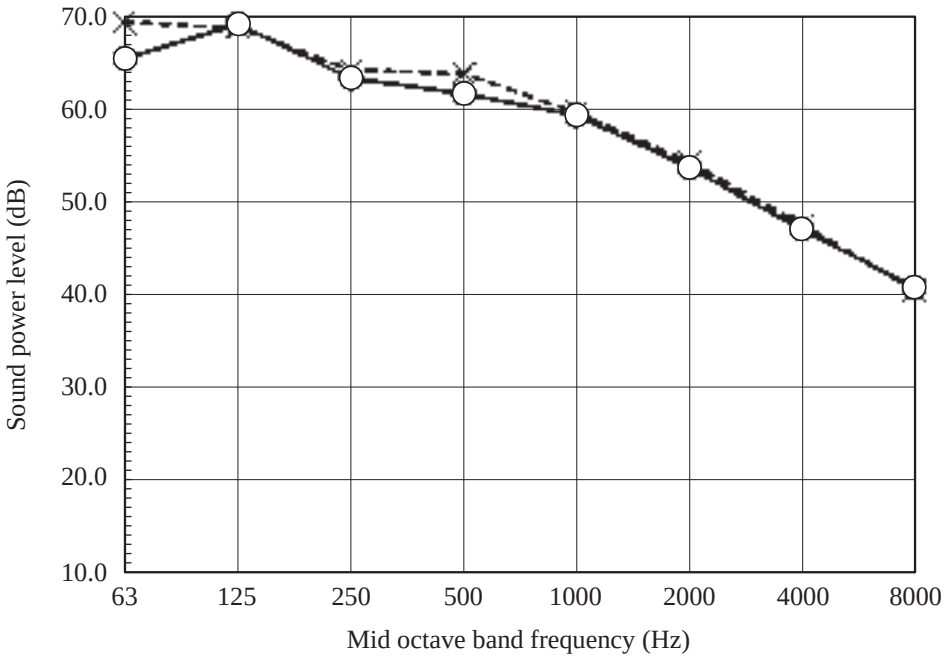
× ····· Cooling, ○ —— Heating



(Outdoor Unit)

Model	SRC60ZSX-W	
Noise Level	Cooling	65 dB(A)
	Heating	64 dB(A)

× ····· Cooling, ○ —— Heating



(2) Sound pressure level

(a) Rated capacity value

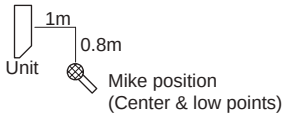
Model SRK20ZSX-W, -WB, -WT

(Indoor Unit)

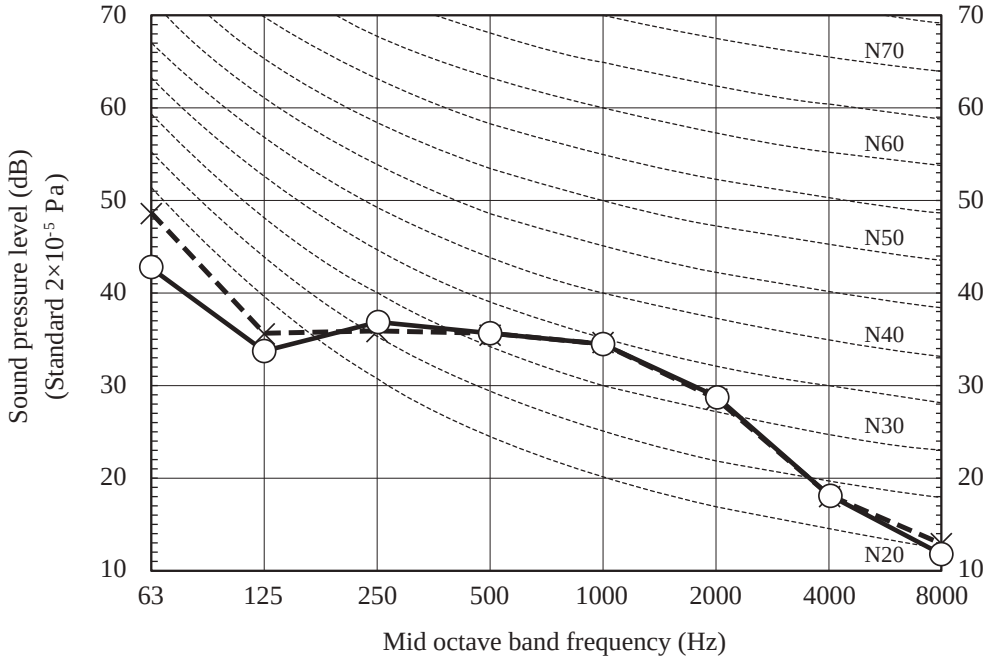
Model	SRK20ZSX-W, -WB, -WT	
Noise Level	Cooling	38 dB(A)
	Heating	38 dB(A)

Condition	ISO5151 T1/H1
MODE	Rated capacity value (Hi)

●Mike position



× ····· Cooling, ○ —— Heating

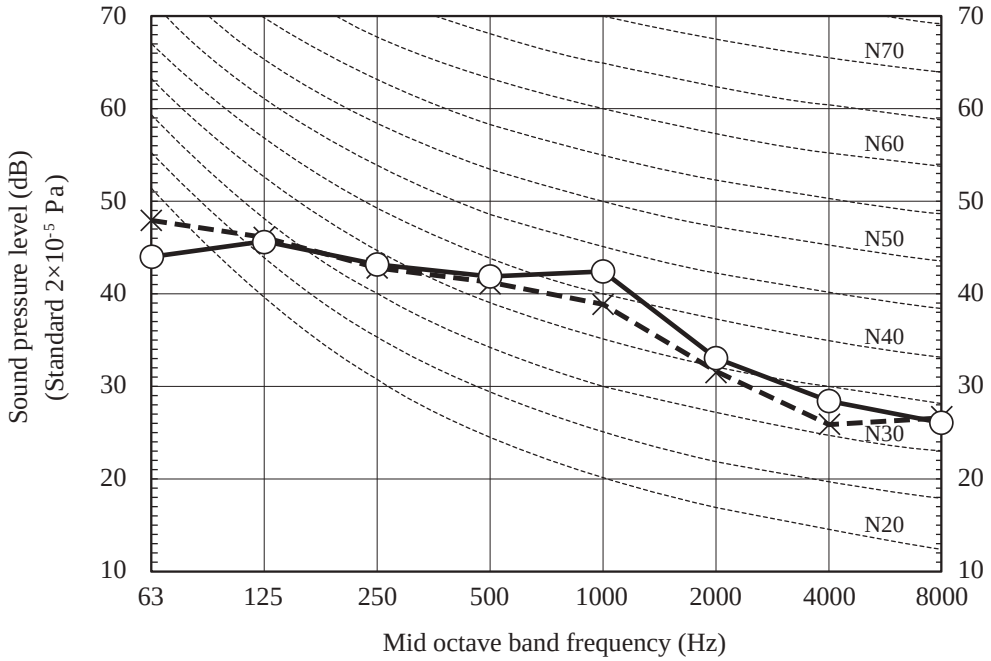


(Outdoor Unit)

Model	SRC20ZSX-W	
Noise Level	Cooling	43 dB(A)
	Heating	45 dB(A)

●Mike position: at highest noise level in position as mentioned below
Distance from front side 1m

× ····· Cooling, ○ —— Heating



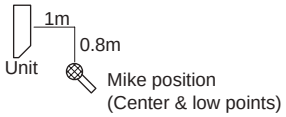
Model SRK25ZSX-W, -WB, -WT

(Indoor Unit)

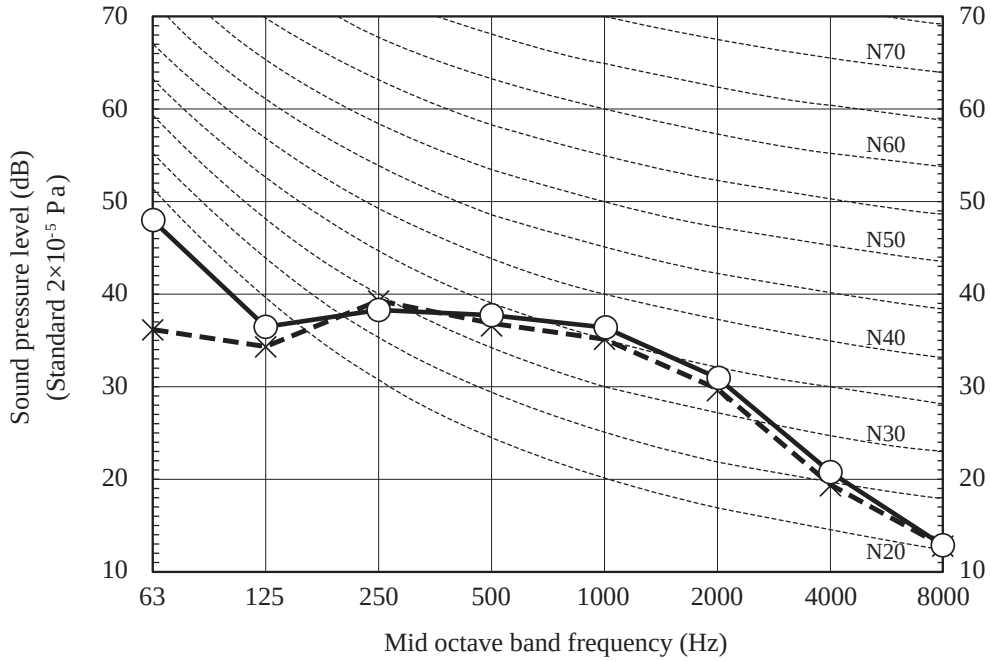
Model	SRK25ZSX-W, -WB, -WT	
Noise Level	Cooling	39 dB(A)
	Heating	40 dB(A)

Condition	ISO5151 T1/H1
MODE	Rated capacity value (Hi)

●Mike position



× ····· Cooling, ○ —— Heating

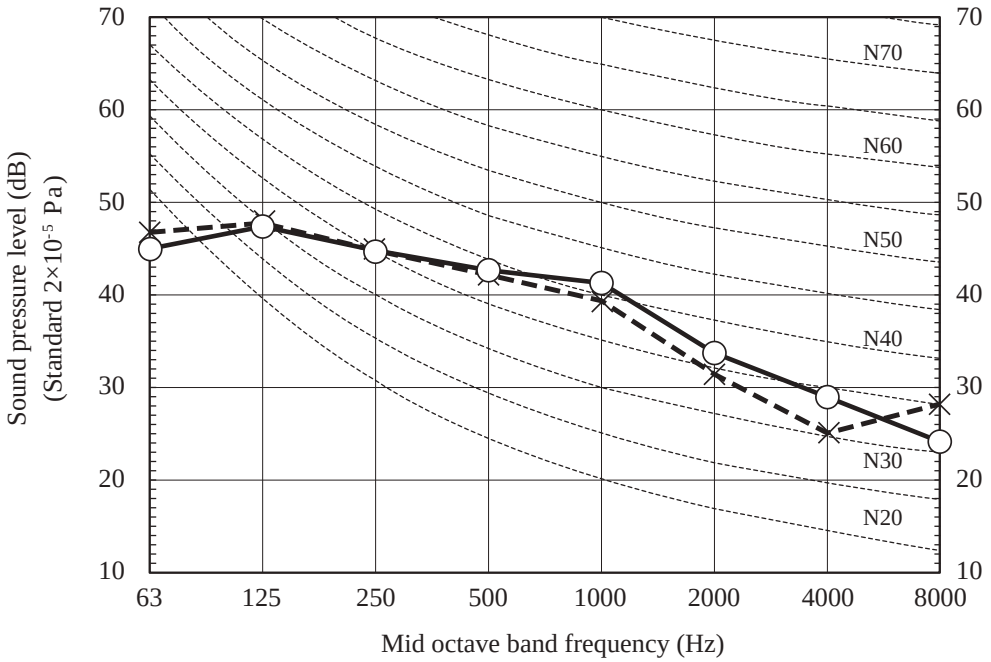


(Outdoor Unit)

Model	SRC25ZSX-W	
Noise Level	Cooling	44 dB(A)
	Heating	45 dB(A)

●Mike position: at highest noise level in position as mentioned below
Distance from front side 1m

× ····· Cooling, ○ —— Heating



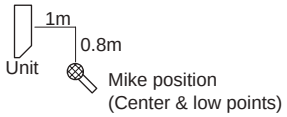
Model SRK35ZSX-W, -WB, -WT

(Indoor Unit)

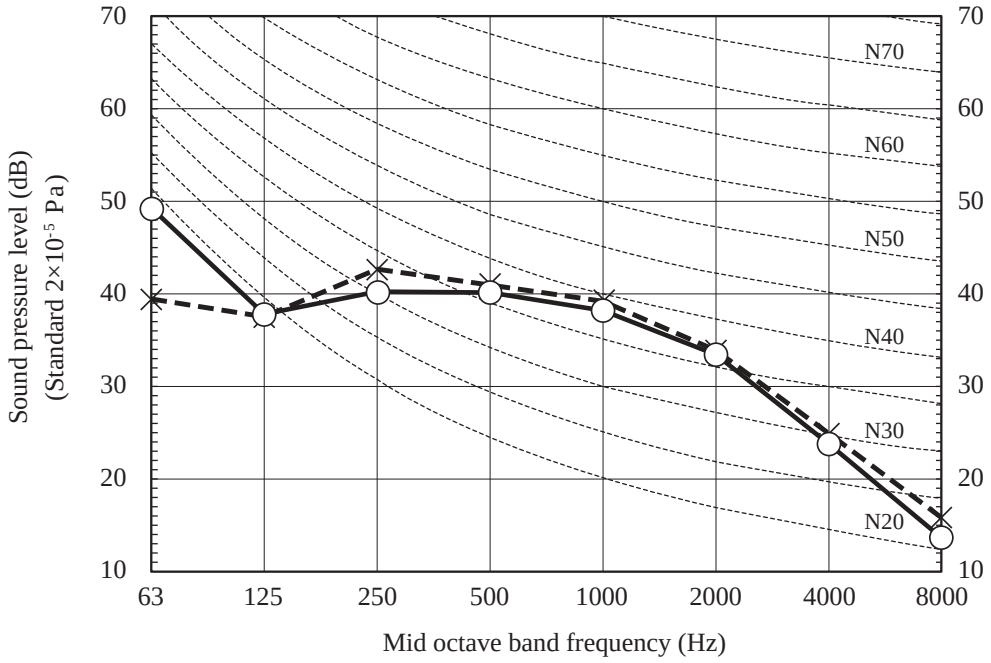
Model	SRK35ZSX-W, -WB, -WT	
Noise Level	Cooling	43 dB(A)
	Heating	42 dB(A)

Condition	ISO5151 T1/H1
MODE	Rated capacity value (Hi)

●Mike position



× ····· Cooling, ○ —— Heating

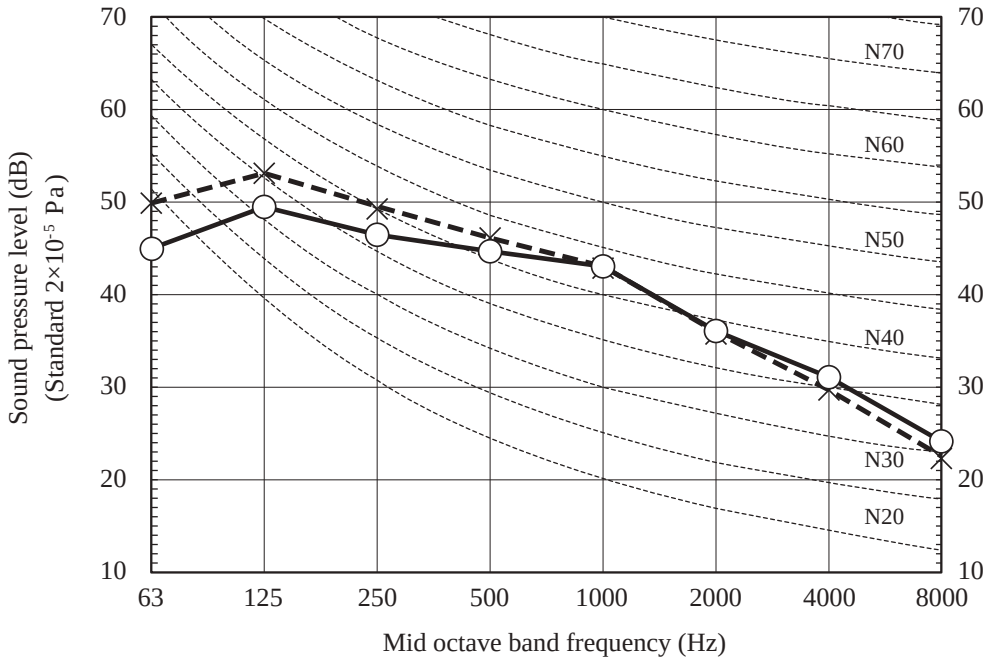


(Outdoor Unit)

Model	SRC35ZSX-W	
Noise Level	Cooling	48 dB(A)
	Heating	47 dB(A)

●Mike position: at highest noise level in position as mentioned below
Distance from front side 1m

× ····· Cooling, ○ —— Heating



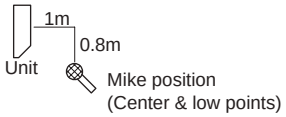
Model SRK50ZSX-W, -WB, -WT

(Indoor Unit)

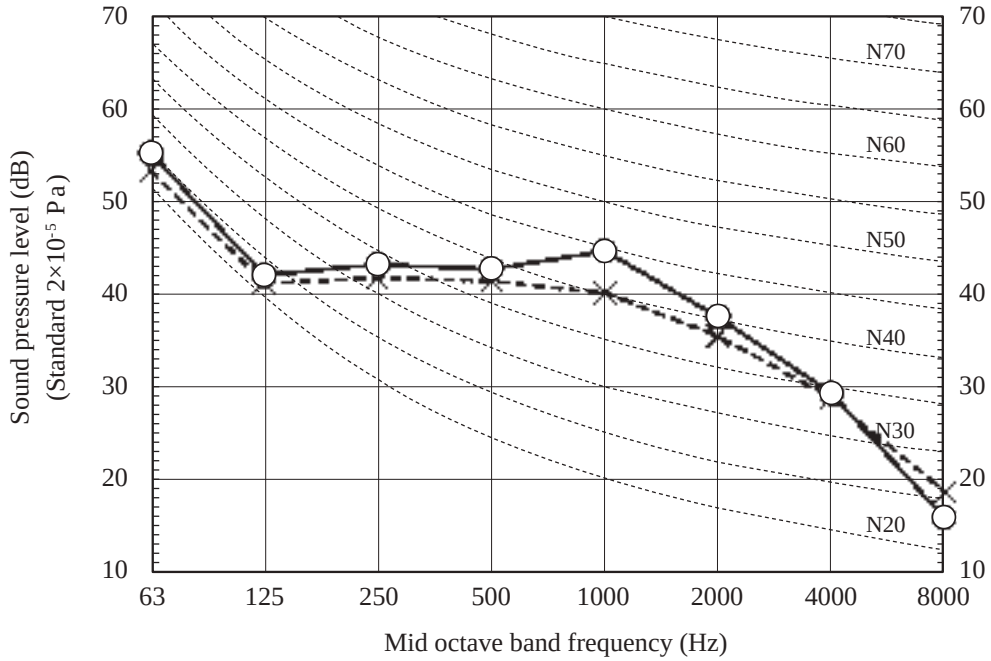
Model	SRK50ZSX-W, -WB, -WT	
Noise Level	Cooling	44 dB(A)
	Heating	47 dB(A)

Condition	ISO5151 T1/H1
MODE	Rated capacity value (Hi)

●Mike position



× ····· Cooling, ○ —— Heating

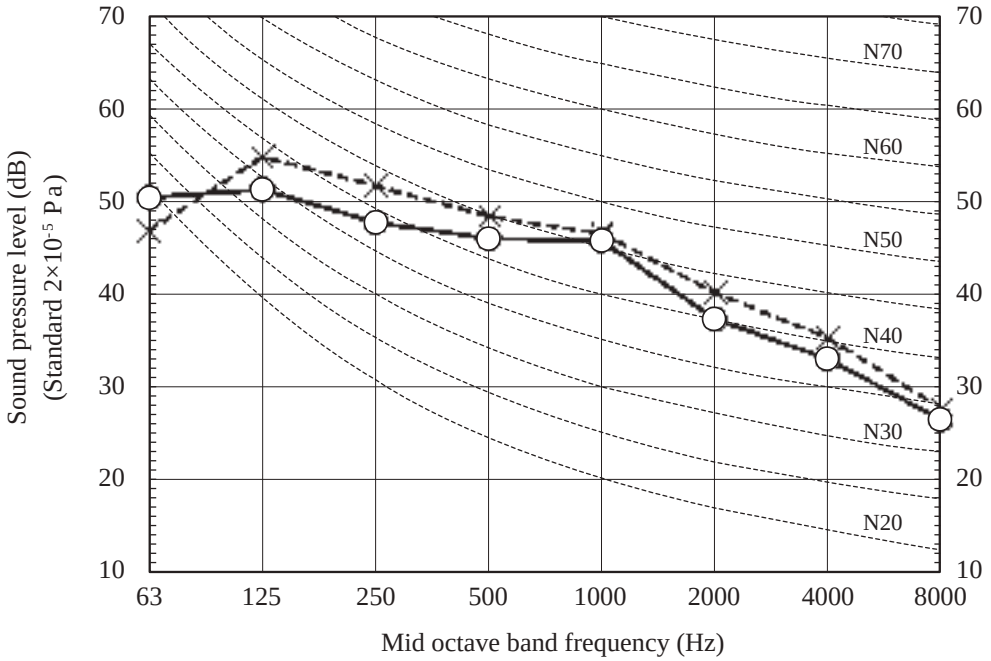


(Outdoor Unit)

Model	SRC50ZSX-W	
Noise Level	Cooling	51 dB(A)
	Heating	49 dB(A)

●Mike position: at highest noise level in position as mentioned below
Distance from front side 1m

× ····· Cooling, ○ —— Heating



Model SRK60ZSX-W, -WB, -WT

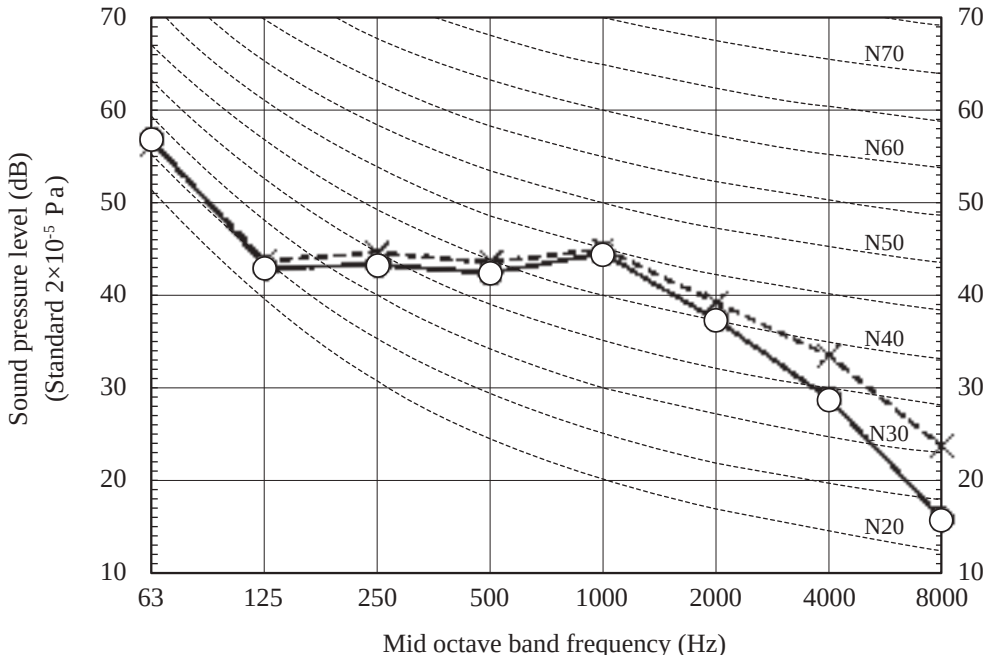
(Indoor Unit)

Model	SRK60ZSX-W, -WB, -WT	
Noise Level	Cooling	48 dB(A)
	Heating	47 dB(A)

Condition	ISO5151 T1/H1
MODE	Rated capacity value (Hi)

●Mike position

× ····· Cooling, ○ —— Heating

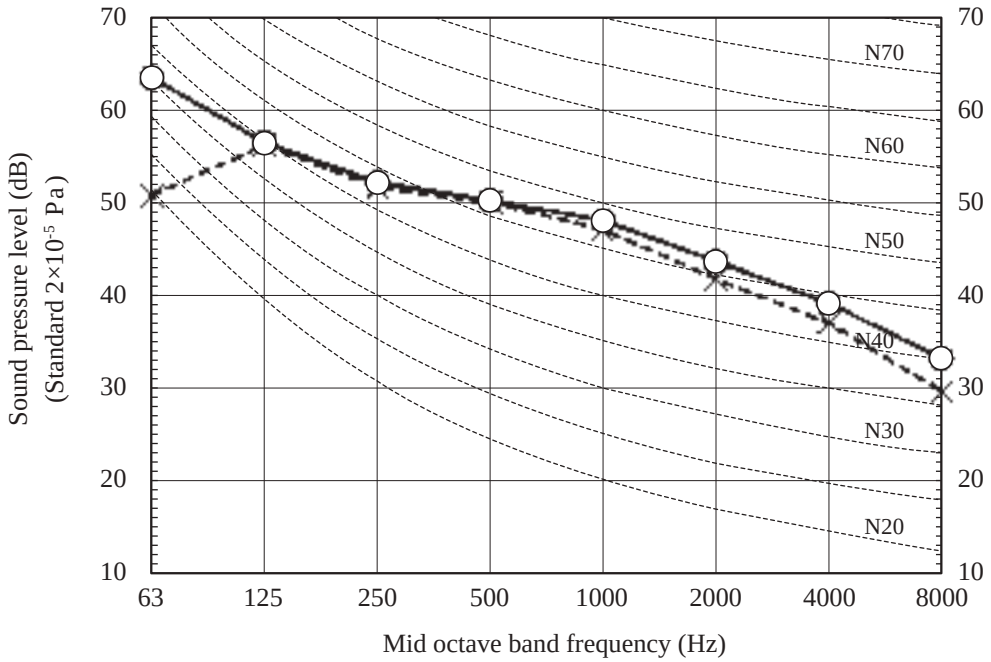


(Outdoor Unit)

Model	SRC60ZSX-W	
Noise Level	Cooling	52 dB(A)
	Heating	53 dB(A)

●Mike position: at highest noise level in position as mentioned below
Distance from front side 1m

× ····· Cooling, ○ —— Heating



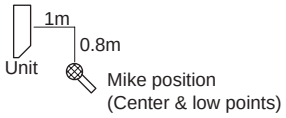
(b) Each fan speed mode

(Indoor Unit)

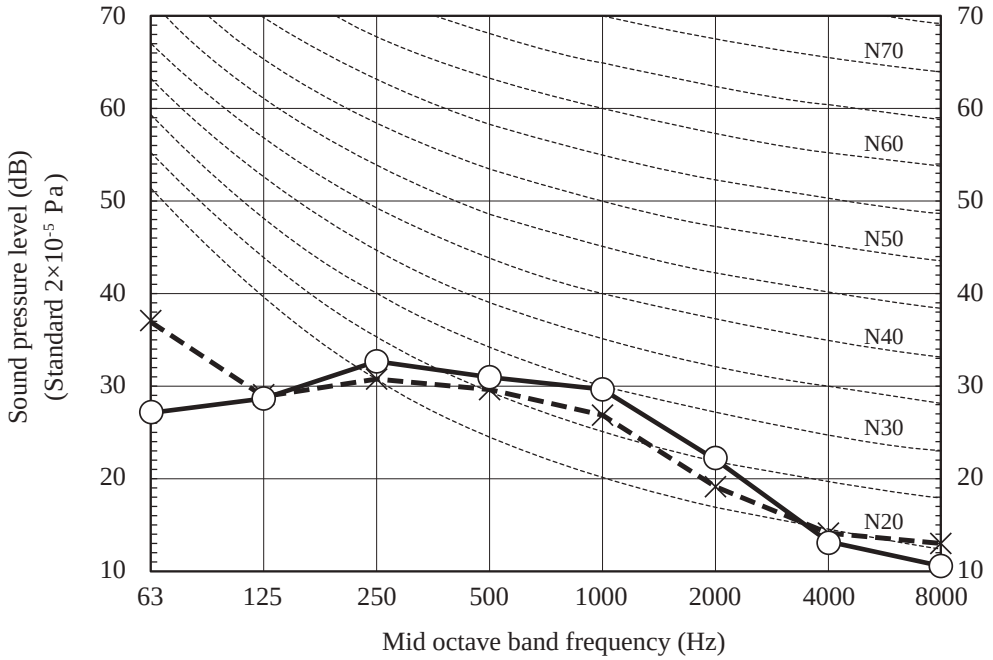
Model	SRK20ZSX-W, -WB, -WT	
Noise Level	Cooling	31 dB(A)
	Heating	33 dB(A)

Condition	ISO5151 T1/H1
MODE	Me

●Mike position



× ····· Cooling, ○ —— Heating

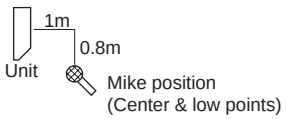


(Indoor Unit)

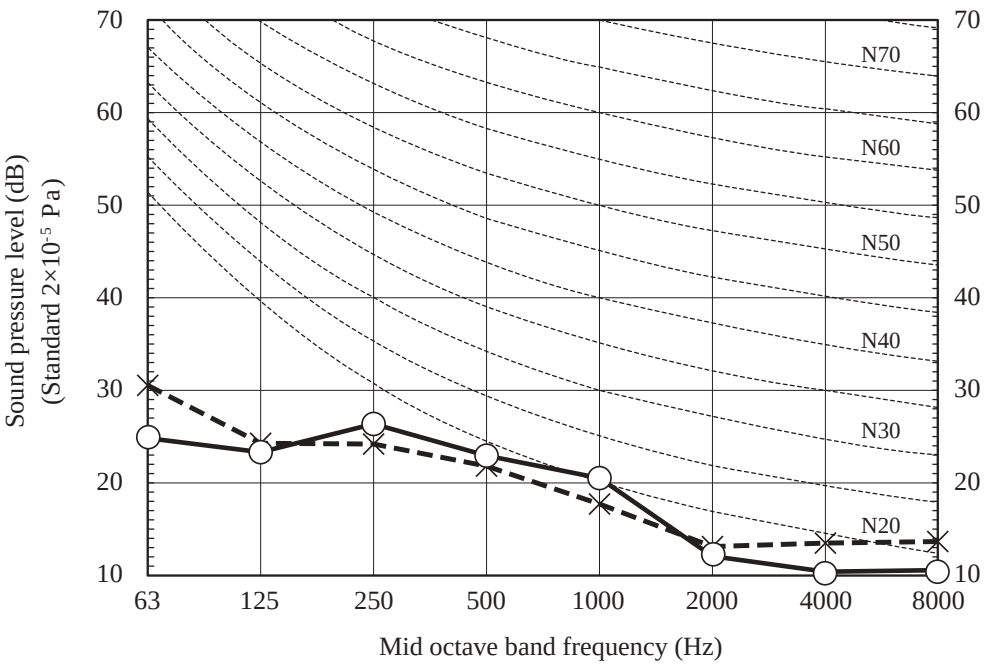
Model	SRK20ZSX-W, -WB, -WT	
Noise Level	Cooling	24 dB(A)
	Heating	25 dB(A)

MODE	Lo

●Mike position



× ····· Cooling, ○ —— Heating



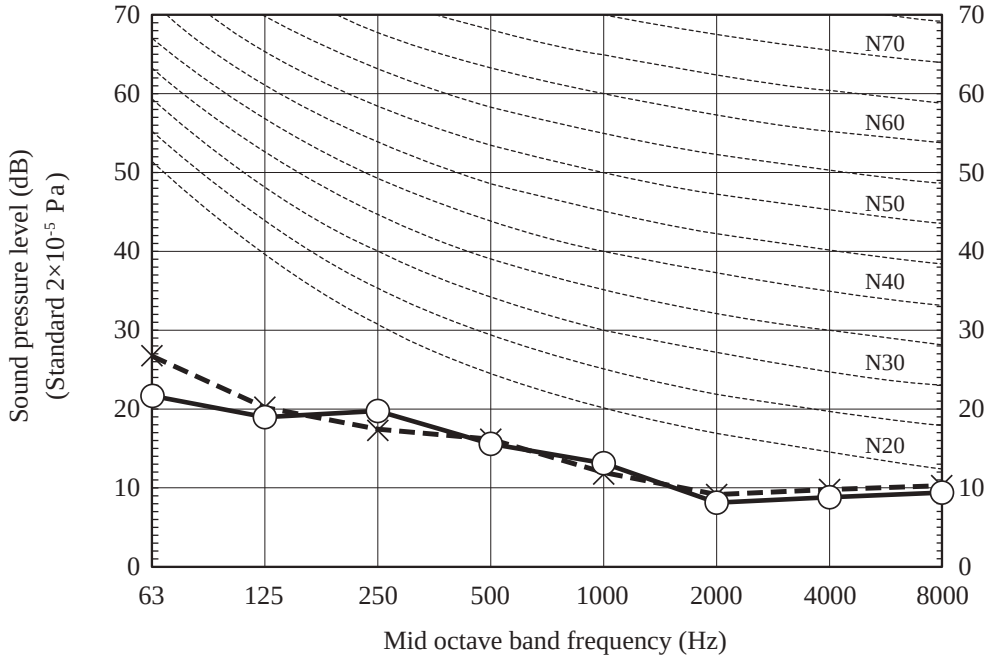
(Indoor Unit)

Model	SRK20ZSX-W, -WB, -WT	
Noise Level	Cooling	19 dB(A)
	Heating	19 dB(A)

Condition	ISO5151 T1/H1
MODE	ULo

●Mike position

× ····· Cooling, ○ —— Heating



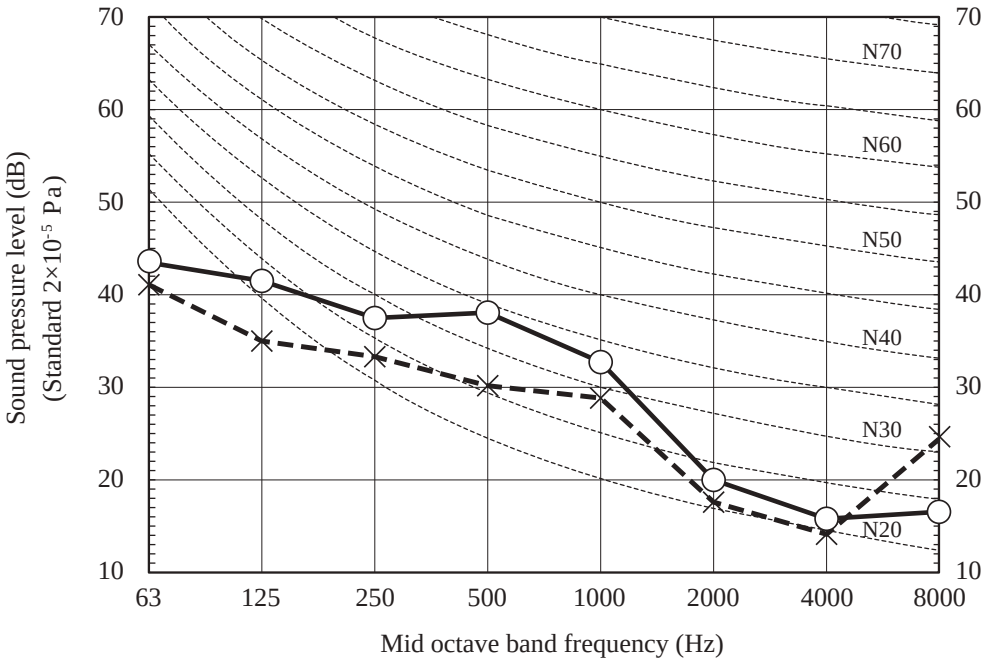
(Outdoor Unit)

Model	SRC20ZSX-W	
Noise Level	Cooling	33 dB(A)
	Heating	38 dB(A)

●Mike position: at highest noise level in position as mentioned below
Distance from front side 1m

MODE	Silent

× ····· Cooling, ○ —— Heating

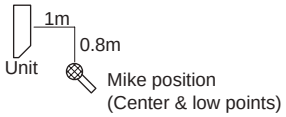


(Indoor Unit)

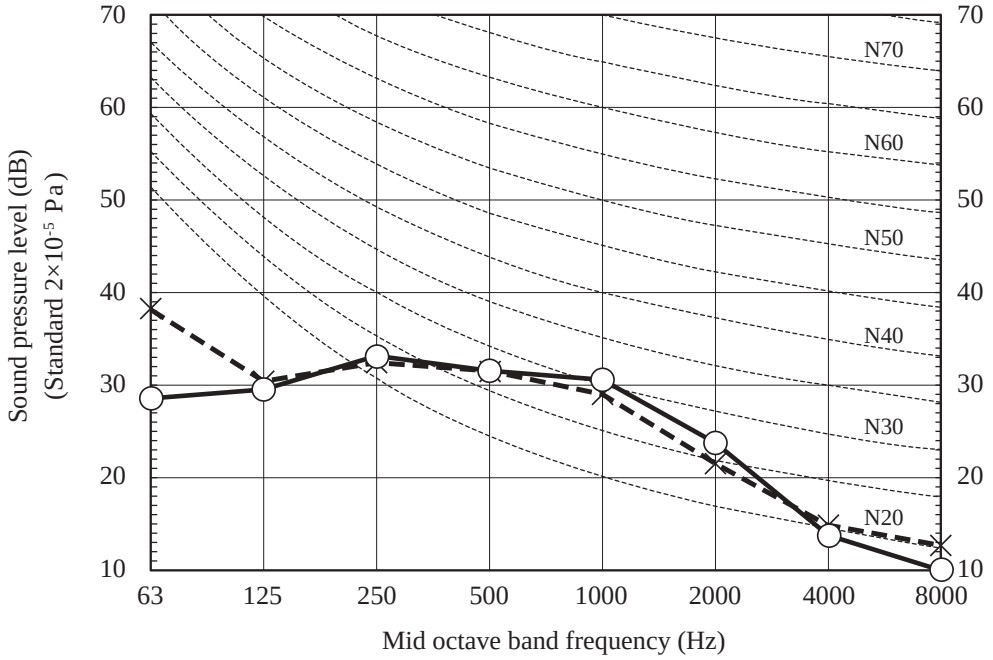
Model	SRK25ZSX-W, -WB, -WT	
Noise Level	Cooling	33 dB(A)
	Heating	34 dB(A)

Condition	ISO5151 T1/H1
MODE	Me

●Mike position



× ····· Cooling, ○ —— Heating

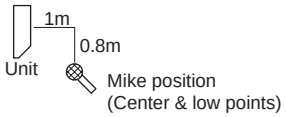


(Indoor Unit)

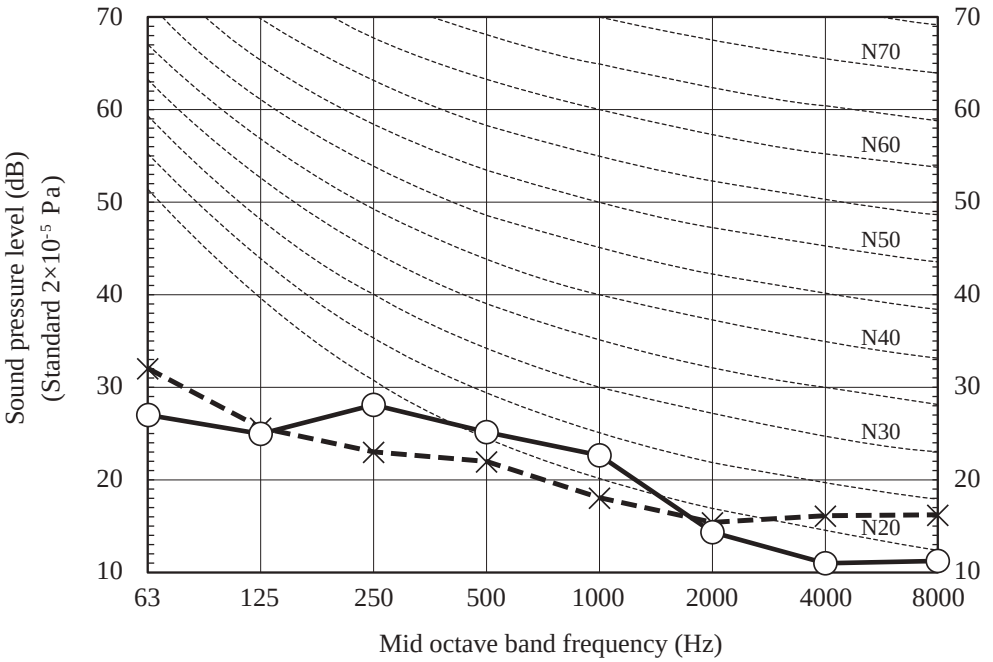
Model	SRK25ZSX-W, -WB, -WT	
Noise Level	Cooling	25 dB(A)
	Heating	27 dB(A)

MODE	Lo

●Mike position



× ····· Cooling, ○ —— Heating



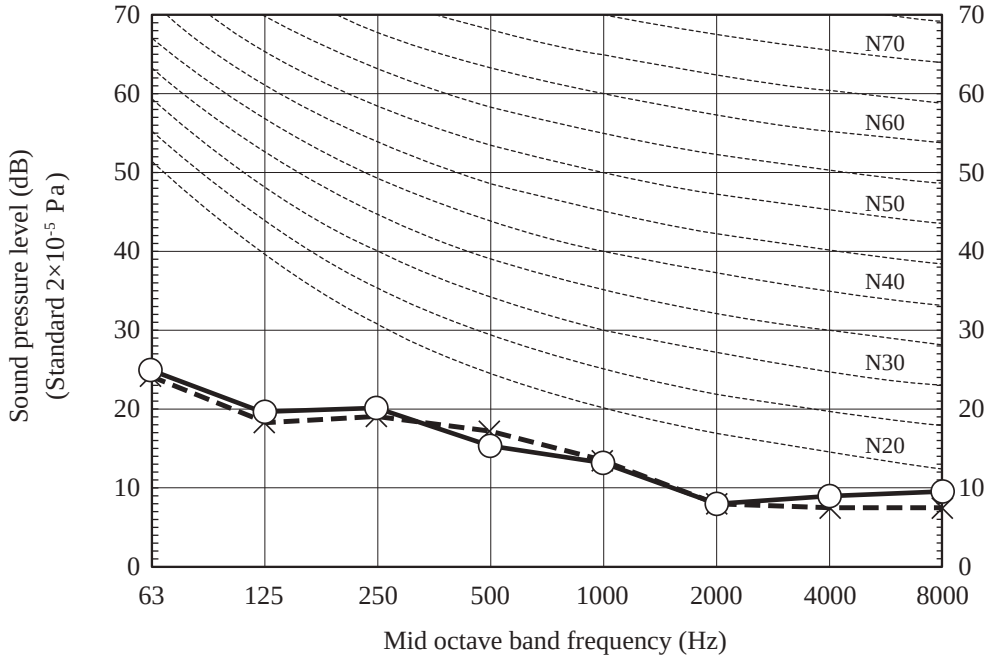
(Indoor Unit)

Model	SRK25ZSX-W, -WB, -WT	
Noise Level	Cooling	19 dB(A)
	Heating	19 dB(A)

Condition	ISO5151 T1/H1
MODE	ULo

●Mike position

× ····· Cooling, ○ —— Heating



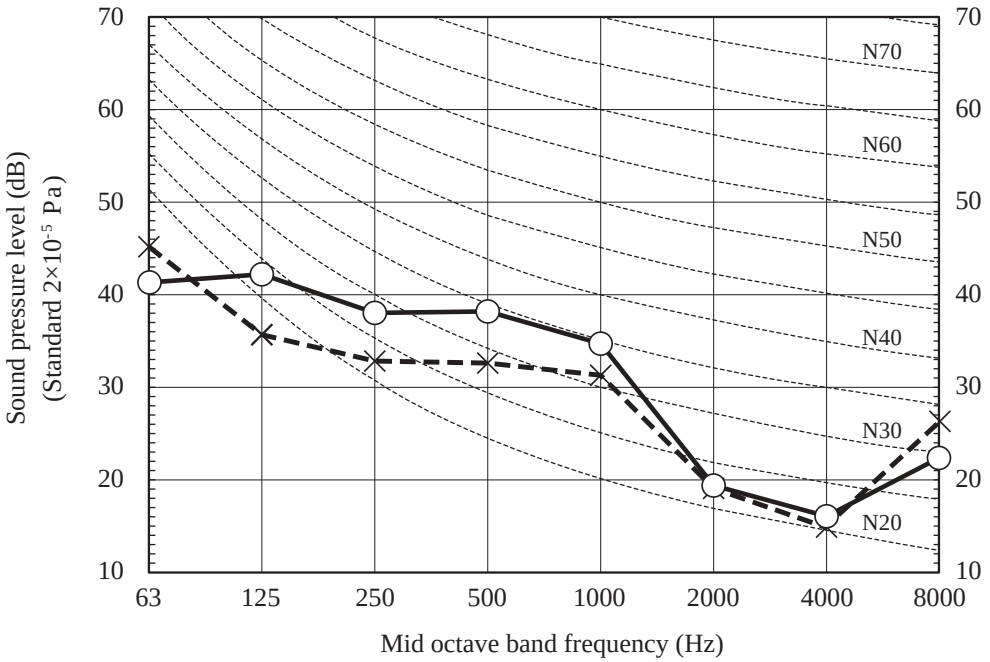
(Outdoor Unit)

Model	SRC25ZSX-W	
Noise Level	Cooling	35 dB(A)
	Heating	39 dB(A)

●Mike position: at highest noise level in position as mentioned below
Distance from front side 1m

MODE	Silent

× ····· Cooling, ○ —— Heating

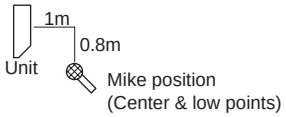


(Indoor Unit)

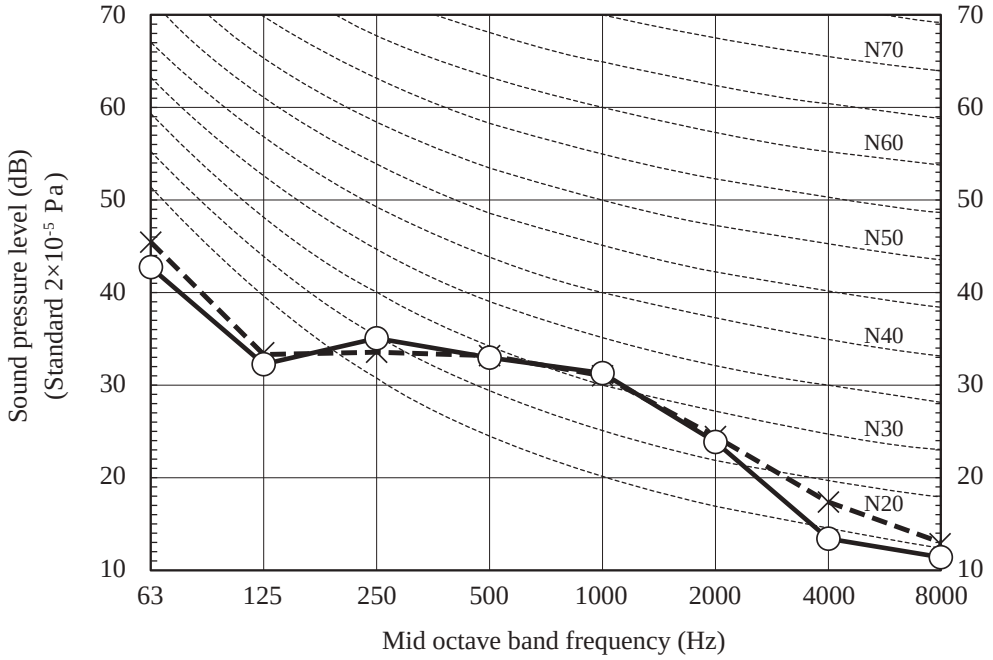
Model	SRK35ZSX-W, -WB, -WT	
Noise Level	Cooling	35 dB(A)
	Heating	35 dB(A)

Condition	ISO5151 T1/H1
MODE	Me

●Mike position



× ····· Cooling, ○ —— Heating

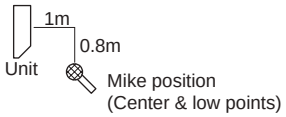


(Indoor Unit)

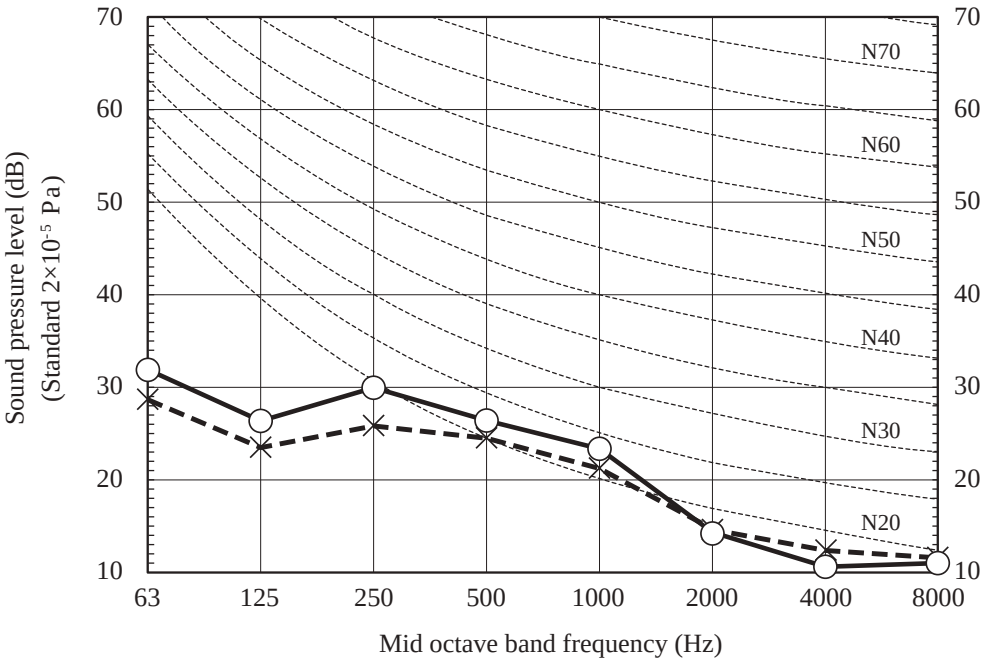
Model	SRK35ZSX-W, -WB, -WT	
Noise Level	Cooling	26 dB(A)
	Heating	28 dB(A)

MODE	Lo

●Mike position



× ····· Cooling, ○ —— Heating



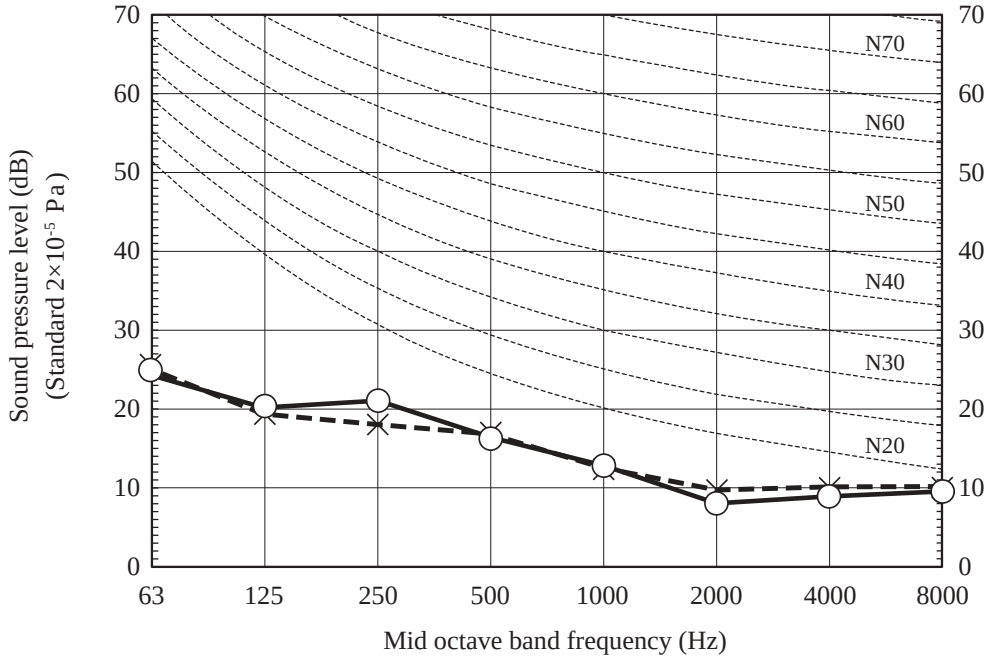
(Indoor Unit)

Model	SRK35ZSX-W, -WB, -WT	
Noise Level	Cooling	19 dB(A)
	Heating	19 dB(A)

Condition	ISO5151 T1/H1
MODE	ULo

●Mike position

× ····· Cooling, ○ —— Heating



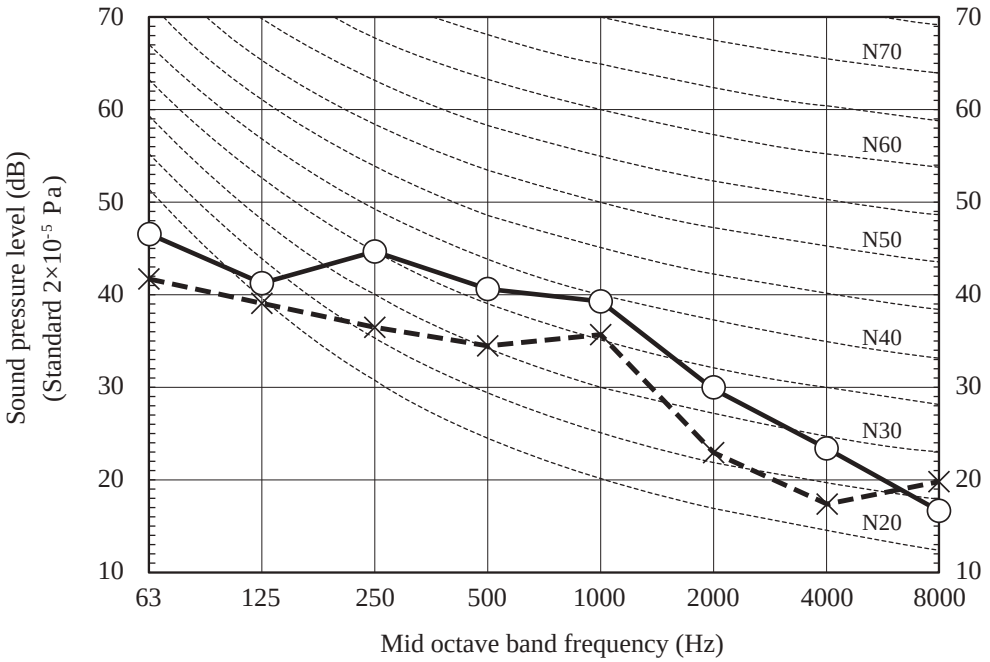
(Outdoor Unit)

Model	SRC35ZSX-W	
Noise Level	Cooling	38 dB(A)
	Heating	43 dB(A)

●Mike position: at highest noise level in position as mentioned below
Distance from front side 1m

MODE	Silent

× ····· Cooling, ○ —— Heating

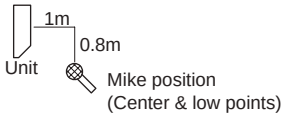


(Indoor Unit)

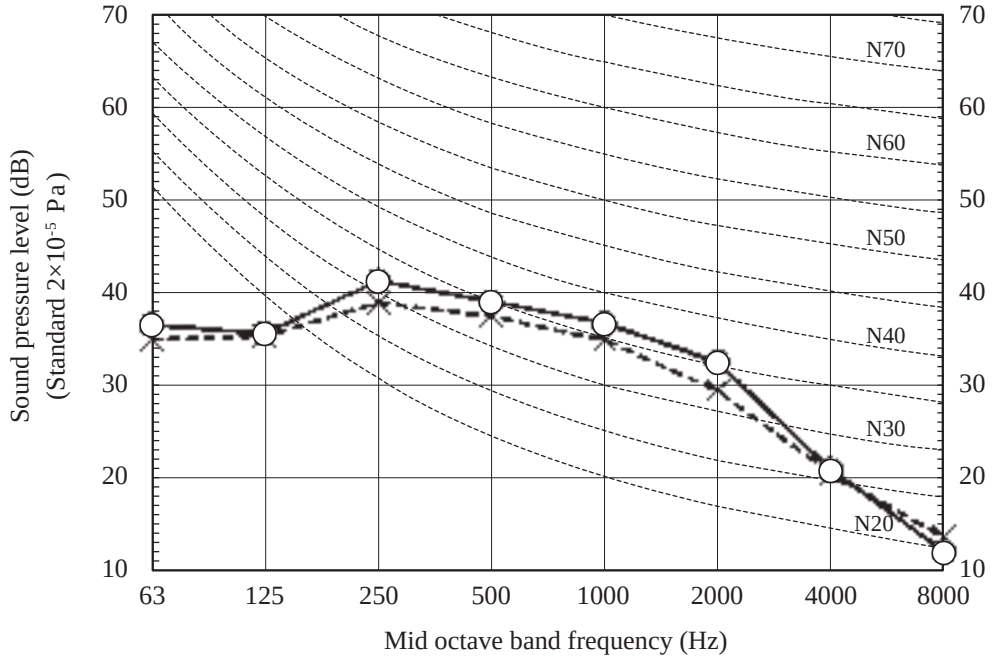
Model	SRK50ZSX-W, -WB, -WT	
Noise Level	Cooling	39 dB(A)
	Heating	41 dB(A)

Condition	ISO5151 T1/H1
MODE	Me

●Mike position



× ····· Cooling, ○ —— Heating

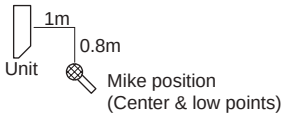


(Indoor Unit)

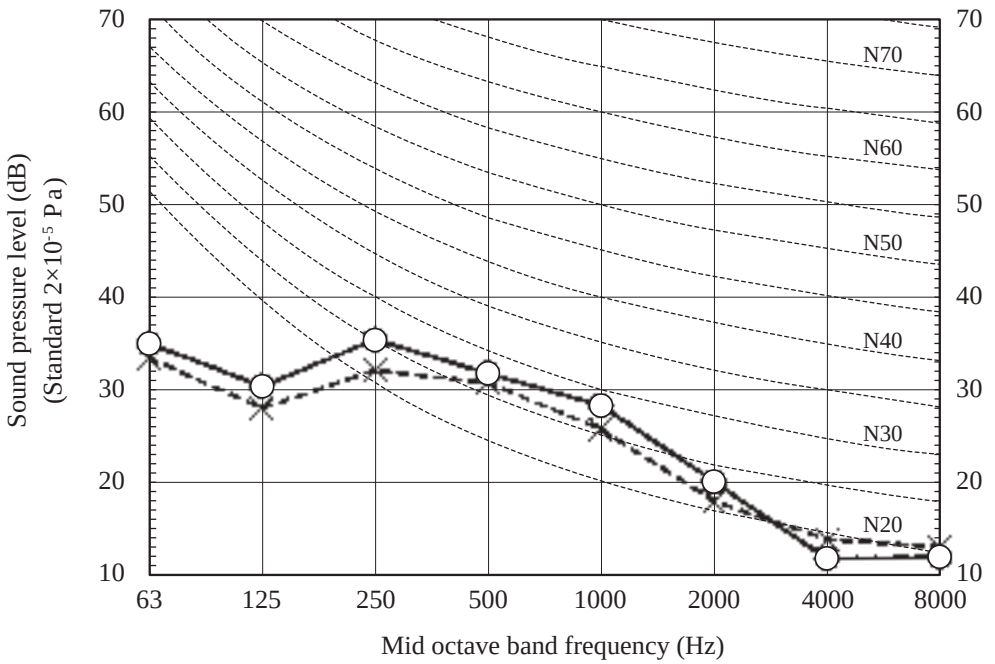
Model	SRK50ZSX-W, -WB, -WT	
Noise Level	Cooling	31 dB(A)
	Heating	33 dB(A)

MODE	Lo

●Mike position



× ····· Cooling, ○ —— Heating



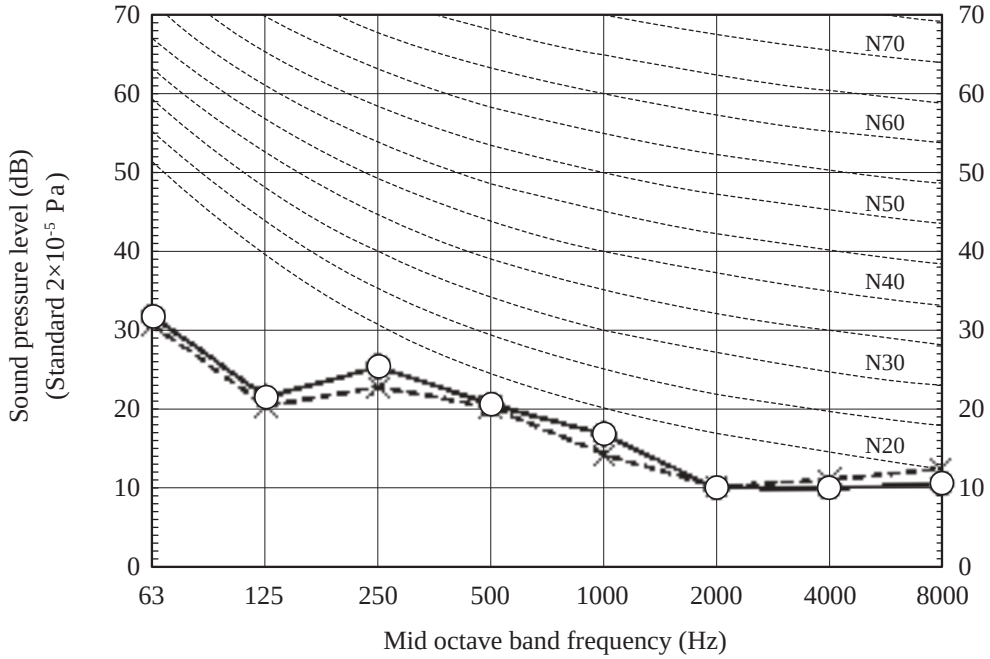
(Indoor Unit)

Model	SRK50ZSX-W, -WB, -WT	
Noise Level	Cooling	22 dB(A)
	Heating	23 dB(A)

Condition	ISO5151 T1/H1
MODE	ULo

●Mike position

× ····· Cooling, ○ —— Heating



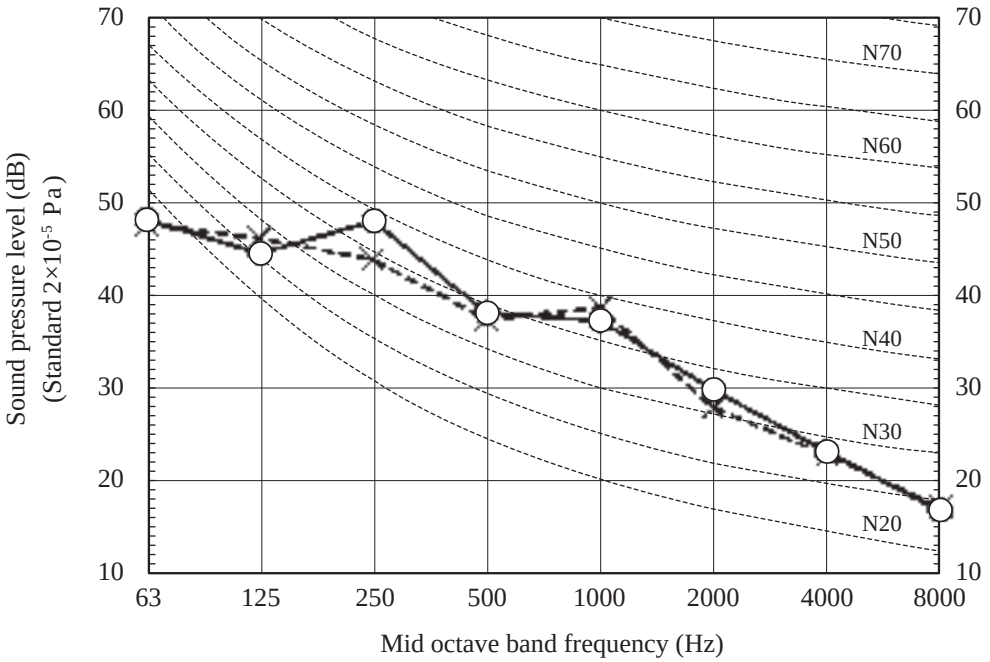
(Outdoor Unit)

Model	SRC50ZSX-W	
Noise Level	Cooling	42 dB(A)
	Heating	43 dB(A)

●Mike position: at highest noise level in position as mentioned below
Distance from front side 1m

MODE	Silent

× ····· Cooling, ○ —— Heating

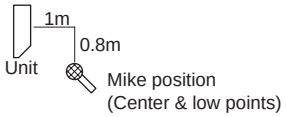


(Indoor Unit)

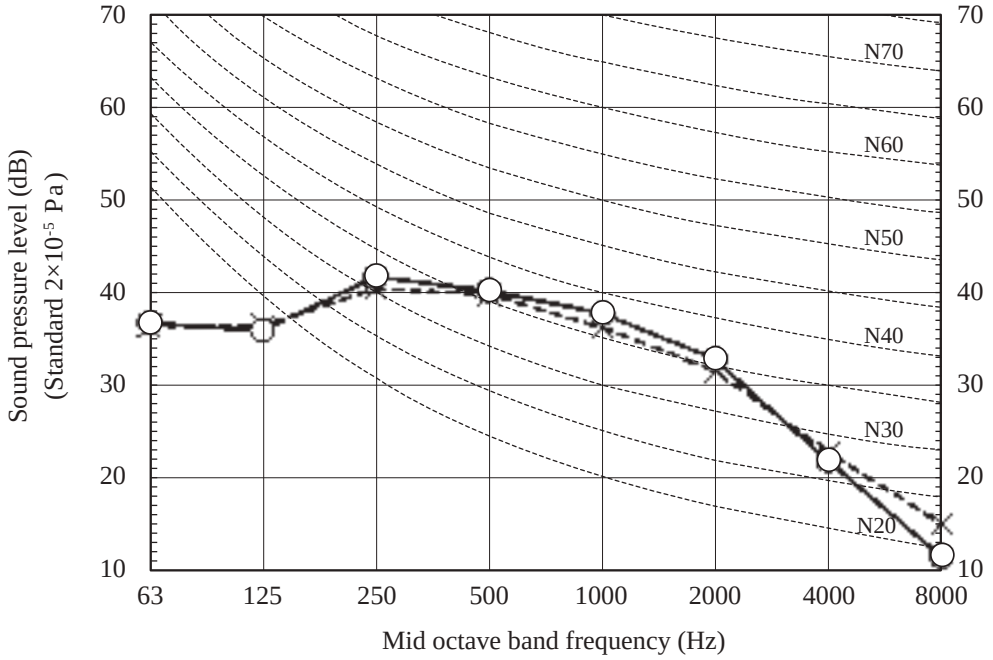
Model	SRK60ZSX-W, -WB, -WT	
Noise Level	Cooling	41 dB(A)
	Heating	42 dB(A)

Condition	ISO5151 T1/H1
MODE	Me

●Mike position



× ····· Cooling, ○ —— Heating

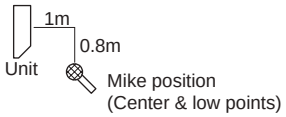


(Indoor Unit)

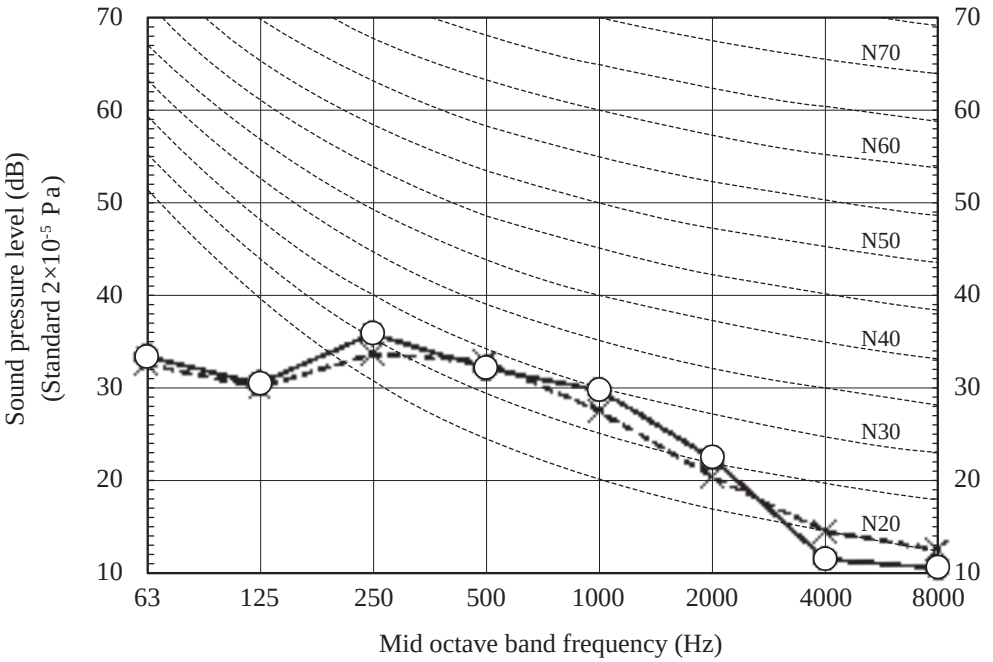
Model	SRK60ZSX-W, -WB, -WT	
Noise Level	Cooling	33 dB(A)
	Heating	34 dB(A)

MODE	Lo

●Mike position



× ····· Cooling, ○ —— Heating



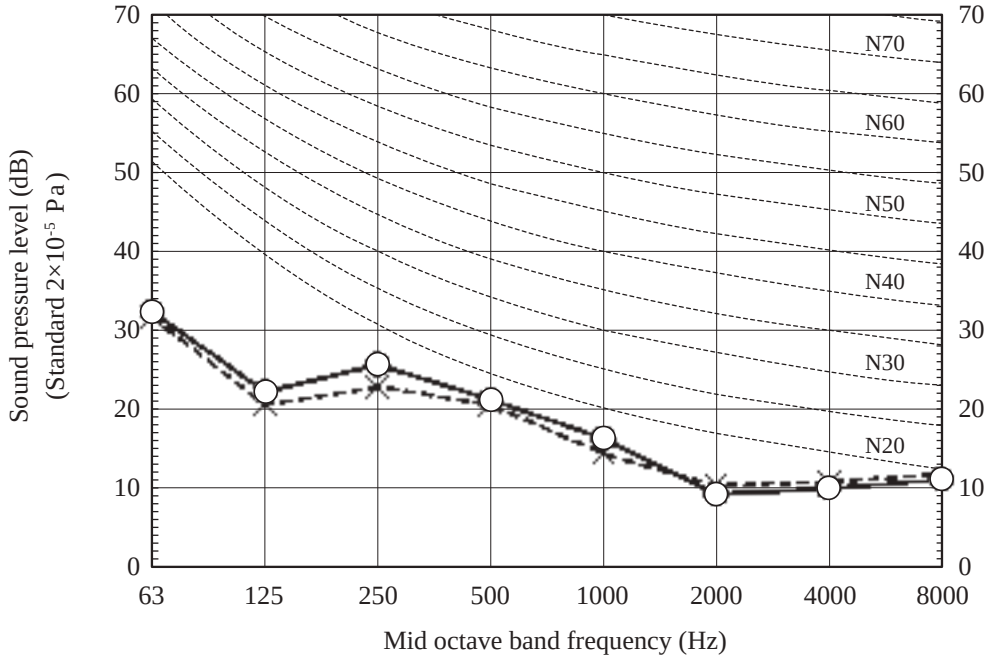
(Indoor Unit)

Model	SRK60ZSX-W, -WB, -WT	
Noise Level	Cooling	22 dB(A)
	Heating	23 dB(A)

Condition	ISO5151 T1/H1
MODE	ULo

●Mike position

× ····· Cooling, ○ —— Heating



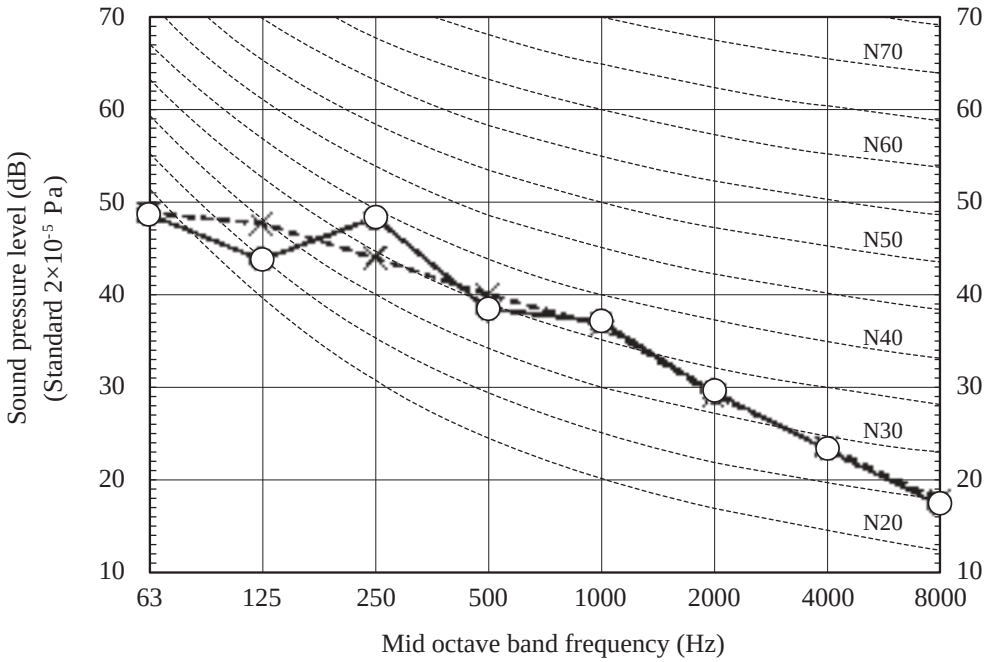
(Outdoor Unit)

Model	SRC60ZSX-W	
Noise Level	Cooling	42 dB(A)
	Heating	43 dB(A)

●Mike position: at highest noise level in position as mentioned below
Distance from front side 1m

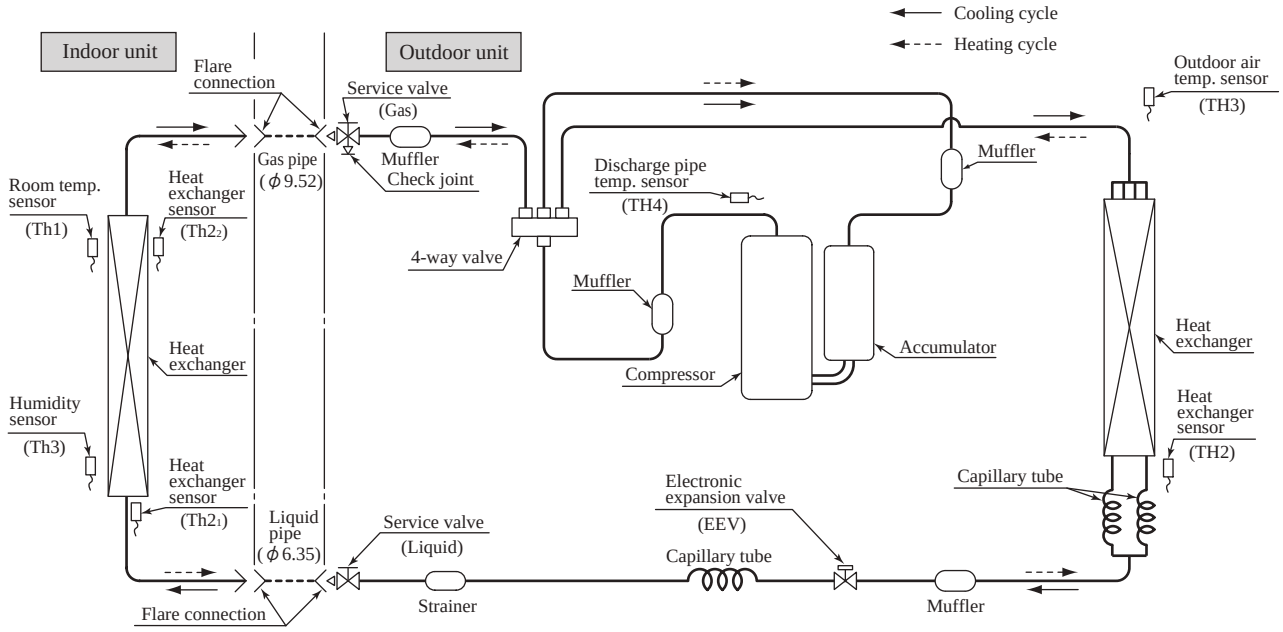
MODE	Silent

× ····· Cooling, ○ —— Heating

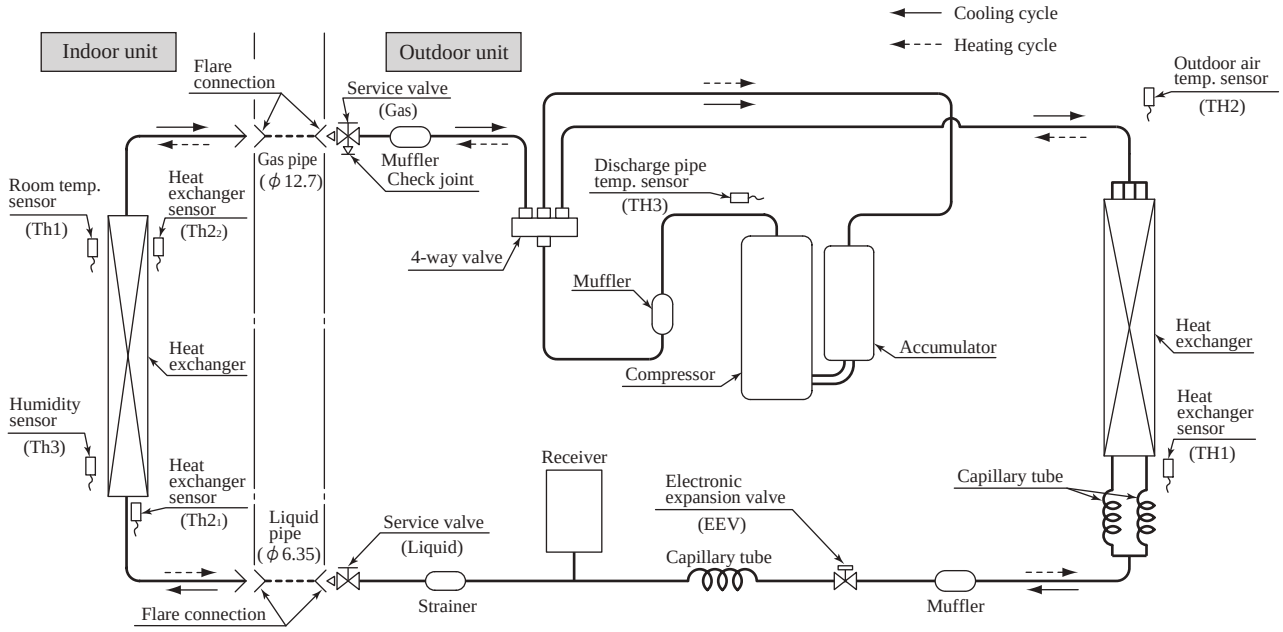


5. PIPING SYSTEM

Models SRK20ZSX-W, 25ZSX-W, 35ZSX-W
SRK20ZSX-WB, 25ZSX-WB, 35ZSX-WB
SRK20ZSX-WT, 25ZSX-WT, 35ZSX-WT



Models SRK50ZSX-W,60ZSX-W
SRK50ZSX-WB, 60ZSX-WB
SRK50ZSX-WT, 60ZSX-WT



6. RANGE OF USAGE & LIMITATIONS

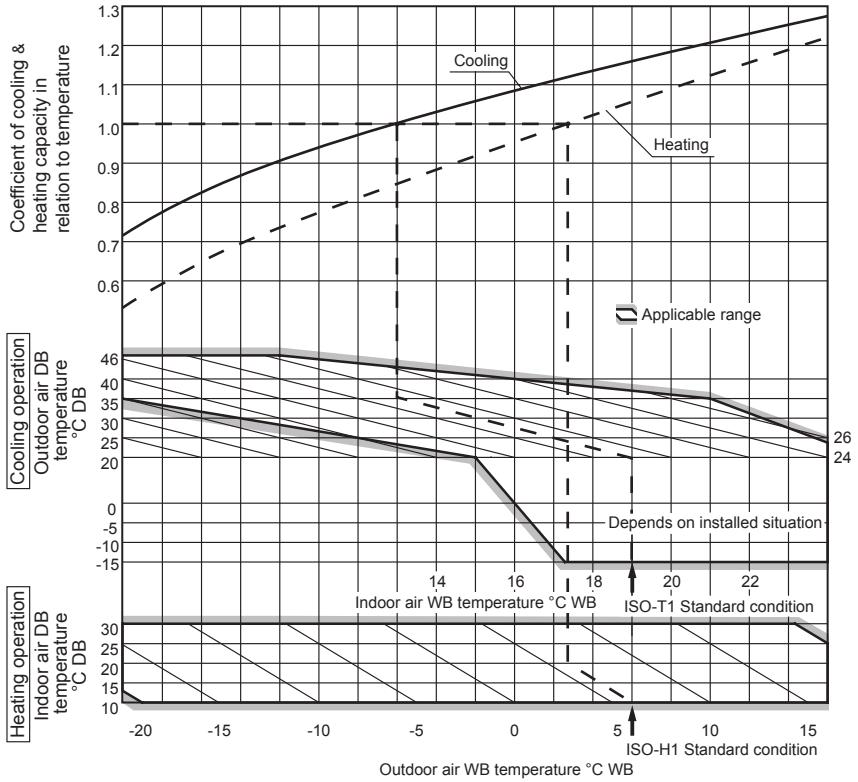
Item \ Model	SRK20, 25, 35ZSX-W SRK20, 25, 35ZSX-WB SRK20, 25, 35ZSX-WT	SRK50, 60ZSX-W SRK50, 60ZSX-WB SRK50, 60ZSX-WT
Indoor return air temperature (Upper, lower limits)	Cooling operation : Approximately 18 to 32℃ DB Heating operation : Approximately 10 to 30℃ DB (Refer to the selection chart)	
Outdoor air temperature (Upper, lower limits)	Cooling operation : Approximately -15 to 46℃ DB Heating operation : Approximately -20 to 24℃ DB (Refer to the selection chart)	
Refrigerant line (one way) length	Max. 25m	Max. 30m
Vertical height difference between outdoor unit and indoor unit	Max. 15m (Outdoor unit is higher) Max. 15m (Outdoor unit is lower)	Max. 20m (Outdoor unit is higher) Max. 15m (Outdoor unit is lower)
Power source voltage	Rating ±10%	
Voltage at starting	Min. 85% of rating	
Frequency of ON-OFF cycle	Max. 4 times/h (Inching prevention 10 minutes)	
ON and OFF interval	Min. 3 minutes	

Selection chart

Correct the cooling and heating capacity in accordance with the conditions as follows. The net cooling and heating capacity can be obtained in the following way.

Net capacity = Capacity shown on specification × Correction factors as follows.

(1) Coefficient of cooling and heating capacity in relation to temperatures



(2) Correction of cooling and heating capacity in relation to one way length of refrigerant piping

It is necessary to correct the cooling and heating capacity in relation to the one way piping length between the indoor and outdoor units.

Piping length [m]	7	10	15	20	25	30
Cooling	1.0	0.99	0.975	0.965	0.95	0.935
Heating	1.0	1.0	1.0	1.0	1.0	1.0

(3) Correction relative to frosting on outdoor heat exchanger during heating

In additions to the foregoing corrections (1), (2) the heating capacity needs to be adjusted also with respect to the frosting on the outdoor heat exchanger.

Air inlet temperature of outdoor unit in °CWB	-20	-15	-10	-9	-7	-5	-3	-1	1	3	5 or more
Adjustment coefficient	0.95	0.95	0.95	0.94	0.93	0.91	0.88	0.86	0.87	0.92	1.00

How to obtain the cooling and heating capacity

Example : The net cooling capacity of the model SRK35ZSX-W with the piping length of 15m, indoor wet-bulb temperature at 19.0˚C and outdoor dry-bulb temperature 35˚C is

Net cooling capacity = 3.5 × 0.975 × 1.0 ≒ 3.4 kW

- 3.5 : SRK35ZSX-W
- 0.975 : Length 15m
- 1.0 : Factor by air temperatures

7. CAPACITY TABLES

Model SRK20ZSX-W, -WB, -WT

Cooling mode (kW)

Air flow	Outdoor air temperature	Indoor air temperature													
		21°CDB		23°CDB		26°CDB		27°CDB		28°CDB		31°CDB		33°CDB	
		14°CWB		16°CWB		18°CWB		19°CWB		20°CWB		22°CWB		24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi 11.3 (m^3/min)	10	2.25	2.12	2.36	2.09	2.45	2.19	2.49	2.17	2.53	2.14	2.60	2.26	2.67	2.21
	12	2.21	2.10	2.32	2.07	2.41	2.18	2.45	2.16	2.50	2.14	2.58	2.26	2.65	2.20
	14	2.17	2.06	2.28	2.05	2.38	2.17	2.42	2.15	2.47	2.12	2.55	2.24	2.62	2.20
	16	2.13	2.02	2.24	2.03	2.34	2.15	2.39	2.13	2.43	2.11	2.52	2.23	2.59	2.17
	18	2.08	1.98	2.19	2.01	2.30	2.14	2.35	2.12	2.40	2.10	2.49	2.22	2.56	2.16
	20	2.04	1.94	2.15	2.00	2.26	2.13	2.31	2.11	2.36	2.09	2.45	2.20	2.53	2.15
	22	1.99	1.89	2.10	1.97	2.22	2.11	2.28	2.10	2.32	2.08	2.42	2.19	2.50	2.14
	24	1.94	1.85	2.05	1.95	2.18	2.07	2.24	2.09	2.28	2.07	2.38	2.18	2.47	2.14
	26	1.90	1.80	2.01	1.91	2.14	2.03	2.20	2.07	2.24	2.05	2.35	2.17	2.43	2.13
	28	1.85	1.75	1.96	1.86	2.09	1.99	2.15	2.05	2.20	2.04	2.31	2.16	2.40	2.12
	30	1.79	1.70	1.90	1.81	2.05	1.94	2.11	2.01	2.16	2.02	2.27	2.15	2.36	2.11
	32	1.74	1.65	1.85	1.76	2.00	1.90	2.07	1.96	2.12	2.00	2.23	2.12	2.32	2.10
	34	1.69	1.60	1.80	1.71	1.95	1.85	2.02	1.92	2.07	1.97	2.19	2.08	2.28	2.09
	35	1.66	1.58	1.77	1.68	1.93	1.83	2.00	1.90	2.05	1.94	2.17	2.06	2.26	2.08
	36	1.63	1.55	1.74	1.65	1.90	1.81	1.98	1.88	2.02	1.92	2.15	2.04	2.24	2.08
	38	1.58	1.50	1.68	1.60	1.85	1.76	1.93	1.83	1.98	1.88	2.11	2.00	2.20	2.07
	39	1.55	1.47	1.66	1.57	1.83	1.74	1.91	1.81	1.95	1.85	2.08	1.98	2.18	2.06
	40	1.52	1.44	1.63	1.55	1.80	1.71	1.88	1.79	1.93	1.83	2.06	1.96	2.16	2.05
	41	1.49	1.42	1.60	1.52	1.77	1.69	1.86	1.76	1.90	1.81	2.04	1.94	2.14	2.03
	42	1.46	1.39	1.57	1.49	1.75	1.66	1.83	1.74	1.88	1.78	2.02	1.92	2.11	2.01
	43	1.43	1.36	1.54	1.46	1.72	1.64	1.81	1.72	1.85	1.76	1.99	1.89	2.09	1.99
	44	1.40	1.33	1.51	1.43	1.69	1.61	1.78	1.69	1.83	1.74	1.97	1.87	2.07	1.96
	45	1.37	1.30	1.48	1.40	1.67	1.58	1.76	1.67	1.80	1.71	1.95	1.85	2.04	1.94
	46	1.34	1.27	1.44	1.37	1.64	1.56	1.73	1.64	1.77	1.69	1.92	1.83	2.02	1.92

Heating mode (HC) (kW)

Air flow	Outdoor air temperature	Indoor air temperature				
		16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
Hi 12.2 (m^3/min)	-20°CWB	1.44	1.40	1.35	1.32	1.28
	-15°CWB	1.66	1.63	1.59	1.55	1.52
	-10°CWB	1.88	1.85	1.82	1.78	1.74
	-5°CWB	2.04	2.01	1.97	1.94	1.91
	0°CWB	2.13	2.10	2.07	2.04	2.01
	5°CWB	2.72	2.69	2.67	2.62	2.58
	6°CWB	2.76	2.73	2.70	2.67	2.63
	10°CWB	2.94	2.91	2.89	2.85	2.82
	15°CWB	3.20	3.17	3.14	3.11	3.08
	20°CWB	3.43	3.41	3.39	3.35	3.32

Model SRK25ZSX-W, -WB, -WT

Cooling mode (kW)

Air flow	Outdoor air temperature	Indoor air temperature													
		21°CDB		23°CDB		26°CDB		27°CDB		28°CDB		31°CDB		33°CDB	
		14°CWB		16°CWB		18°CWB		19°CWB		20°CWB		22°CWB		24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi 12.2 (m^3/min)	10	2.82	2.65	2.95	2.61	3.06	2.75	3.11	2.72	3.16	2.69	3.26	2.83	3.34	2.77
	12	2.77	2.62	2.90	2.58	3.01	2.73	3.07	2.71	3.12	2.68	3.22	2.82	3.31	2.76
	14	2.71	2.58	2.85	2.56	2.97	2.72	3.03	2.69	3.08	2.67	3.18	2.81	3.28	2.74
	16	2.66	2.53	2.80	2.54	2.92	2.70	2.98	2.68	3.04	2.65	3.15	2.80	3.24	2.73
	18	2.60	2.47	2.74	2.52	2.88	2.68	2.94	2.66	2.99	2.64	3.11	2.78	3.20	2.72
	20	2.55	2.42	2.68	2.49	2.83	2.66	2.89	2.64	2.95	2.62	3.07	2.76	3.17	2.71
	22	2.49	2.37	2.63	2.47	2.78	2.64	2.84	2.62	2.90	2.60	3.02	2.75	3.13	2.68
	24	2.43	2.31	2.57	2.44	2.72	2.59	2.80	2.61	2.85	2.58	2.98	2.74	3.08	2.66
	26	2.37	2.25	2.51	2.38	2.67	2.54	2.74	2.59	2.80	2.57	2.93	2.73	3.04	2.65
	28	2.31	2.19	2.44	2.32	2.61	2.48	2.69	2.56	2.75	2.55	2.89	2.69	3.00	2.64
	30	2.24	2.13	2.38	2.26	2.56	2.43	2.64	2.51	2.70	2.53	2.84	2.68	2.95	2.63
	32	2.18	2.07	2.31	2.20	2.50	2.37	2.58	2.46	2.64	2.51	2.79	2.65	2.90	2.61
	34	2.11	2.00	2.25	2.13	2.44	2.32	2.53	2.40	2.59	2.46	2.74	2.60	2.85	2.60
	35	2.08	1.97	2.21	2.10	2.41	2.29	2.50	2.38	2.56	2.43	2.71	2.58	2.83	2.59
	36	2.04	1.94	2.18	2.07	2.38	2.26	2.47	2.35	2.53	2.40	2.69	2.55	2.80	2.59
	38	1.97	1.87	2.11	2.00	2.32	2.20	2.41	2.29	2.47	2.35	2.63	2.50	2.75	2.57
	39	1.94	1.84	2.07	1.97	2.28	2.17	2.38	2.26	2.44	2.32	2.61	2.48	2.72	2.57
	40	1.90	1.81	2.03	1.93	2.25	2.14	2.35	2.23	2.41	2.29	2.58	2.45	2.70	2.56
	41	1.86	1.77	2.00	1.90	2.22	2.11	2.32	2.20	2.38	2.26	2.55	2.42	2.67	2.54
	42	1.83	1.74	1.96	1.86	2.19	2.08	2.29	2.18	2.35	2.23	2.52	2.40	2.64	2.51
	43	1.79	1.70	1.92	1.83	2.15	2.04	2.26	2.15	2.32	2.20	2.49	2.37	2.61	2.48
	44	1.75	1.67	1.88	1.79	2.12	2.01	2.23	2.12	2.28	2.17	2.46	2.34	2.58	2.46
	45	1.71	1.63	1.84	1.75	2.08	1.98	2.19	2.08	2.25	2.14	2.43	2.31	2.56	2.43
	46	1.68	1.59	1.81	1.72	2.05	1.95	2.16	2.05	2.22	2.11	2.40	2.28	2.53	2.40

Heating mode (HC) (kW)

Air flow	Outdoor air temperature	Indoor air temperature				
		16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
Hi 12.8 (m^3/min)	-20°CWB	1.70	1.66	1.60	1.57	1.52
	-15°CWB	1.97	1.93	1.88	1.84	1.80
	-10°CWB	2.23	2.19	2.16	2.10	2.06
	-5°CWB	2.41	2.38	2.33	2.30	2.27
	0°CWB	2.53	2.49	2.45	2.42	2.38
	5°CWB	3.22	3.19	3.17	3.10	3.06
	6°CWB	3.27	3.24	3.20	3.16	3.12
	10°CWB	3.48	3.45	3.42	3.38	3.34
	15°CWB	3.79	3.75	3.73	3.69	3.65
	20°CWB	4.07	4.04	4.02	3.97	3.94

Model SRK35ZSX-W, -WB, -WT

Cooling mode (kW)

Air flow	Outdoor air temperature	Indoor air temperature													
		21°CDB		23°CDB		26°CDB		27°CDB		28°CDB		31°CDB		33°CDB	
		14°CWB		16°CWB		18°CWB		19°CWB		20°CWB		22°CWB		24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi 13.1 (m^3/min)	10	3.94	3.48	4.13	3.42	4.28	3.60	4.35	3.56	4.43	3.52	4.56	3.66	4.68	3.57
	12	3.87	3.45	4.06	3.39	4.22	3.58	4.29	3.54	4.37	3.50	4.51	3.65	4.63	3.56
	14	3.80	3.41	3.99	3.36	4.16	3.55	4.24	3.51	4.31	3.48	4.46	3.63	4.59	3.54
	16	3.72	3.38	3.91	3.33	4.09	3.52	4.18	3.49	4.25	3.45	4.40	3.61	4.54	3.53
	18	3.65	3.34	3.84	3.30	4.03	3.49	4.11	3.46	4.19	3.43	4.35	3.59	4.49	3.51
	20	3.57	3.31	3.76	3.26	3.96	3.47	4.05	3.44	4.13	3.40	4.29	3.57	4.43	3.49
	22	3.49	3.27	3.68	3.23	3.89	3.44	3.98	3.41	4.06	3.38	4.23	3.55	4.38	3.48
	24	3.40	3.22	3.59	3.20	3.81	3.41	3.91	3.39	3.99	3.35	4.17	3.53	4.32	3.46
	26	3.32	3.15	3.51	3.16	3.74	3.38	3.84	3.36	3.92	3.33	4.11	3.51	4.26	3.44
	28	3.23	3.07	3.42	3.12	3.66	3.35	3.77	3.33	3.85	3.30	4.04	3.49	4.20	3.42
	30	3.14	2.98	3.33	3.08	3.58	3.32	3.70	3.30	3.78	3.28	3.98	3.47	4.13	3.40
	32	3.05	2.90	3.24	3.04	3.50	3.29	3.62	3.28	3.70	3.25	3.91	3.45	4.06	3.38
	34	2.95	2.81	3.14	2.99	3.41	3.24	3.54	3.25	3.62	3.22	3.84	3.42	4.00	3.36
	35	2.91	2.76	3.10	2.94	3.37	3.20	3.50	3.23	3.58	3.21	3.80	3.41	3.96	3.35
	36	2.86	2.72	3.05	2.90	3.33	3.16	3.46	3.22	3.54	3.19	3.76	3.40	3.92	3.34
	38	2.76	2.62	2.95	2.80	3.24	3.08	3.38	3.19	3.46	3.16	3.69	3.38	3.85	3.32
	39	2.71	2.57	2.90	2.75	3.20	3.04	3.33	3.17	3.42	3.15	3.65	3.36	3.81	3.31
	40	2.66	2.66	2.61	2.48	2.89	2.74	3.29	3.13	3.37	3.13	3.61	3.35	3.78	3.30
	41	2.61	2.61	2.56	2.43	2.85	2.70	3.25	3.09	3.33	3.12	3.57	3.34	3.74	3.29
	42	2.56	2.56	2.51	2.39	2.80	2.66	3.21	3.05	3.29	3.10	3.53	3.33	3.70	3.27
	43	2.51	2.51	2.47	2.34	2.76	2.62	3.16	3.00	3.24	3.08	3.49	3.31	3.66	3.26
	44	2.45	2.45	2.42	2.30	2.72	2.58	3.12	2.96	3.20	3.04	3.45	3.28	3.62	3.25
	45	2.40	2.40	2.37	2.25	2.67	2.54	3.07	2.92	3.15	2.99	3.41	3.24	3.58	3.24
	46	2.35	2.35	2.32	2.20	2.63	2.50	3.03	2.88	3.11	2.95	3.36	3.20	3.54	3.23

Heating mode (HC) (kW)

Air flow	Outdoor air temperature	Indoor air temperature				
		16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
Hi 13.9 (m^3/m in)	-20°CWB	2.29	2.23	2.16	2.11	2.05
	-15°CWB	2.65	2.59	2.53	2.48	2.42
	-10°CWB	2.99	2.94	2.90	2.83	2.77
	-5°CWB	3.24	3.20	3.13	3.10	3.05
	0°CWB	3.40	3.35	3.29	3.25	3.20
	5°CWB	4.33	4.28	4.26	4.17	4.11
	6°CWB	4.40	4.35	4.30	4.25	4.19
	10°CWB	4.68	4.63	4.60	4.54	4.49
	15°CWB	5.09	5.04	5.01	4.95	4.91
	20°CWB	5.47	5.42	5.40	5.34	5.29

Notes(1) These data show average statuses.
Depending on the system control, there may be ranges where the operation is not conducted continuously.
These data show the case where the operation frequency of a compressor is fixed.
(2) Capacities are based on the following conditions.
Corresponding refrigerant piping length :5m
Level difference of Zero.
(3) Symbols are as follows.
TC : Total cooling capacity (kW)
SHC : Sensible heat capacity (kW)
HC : Heating capacity (kW)

Model SRK50ZSX-W, -WB, -WT

Cooling mode (kW)

Air flow	Outdoor air temperature	Indoor air temperature													
		21°CDB		23°CDB		26°CDB		27°CDB		28°CDB		31°CDB		33°CDB	
		14°CWB		16°CWB		18°CWB		19°CWB		20°CWB		22°CWB		24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi 14.3 (m^3/min)	10	5.63	4.44	5.90	4.37	6.11	4.53	6.22	4.47	6.32	4.41	6.51	4.55	6.69	4.42
	12	5.53	4.39	5.80	4.32	6.03	4.49	6.14	4.44	6.25	4.38	6.44	4.52	6.62	4.39
	14	5.43	4.34	5.70	4.27	5.94	4.45	6.05	4.40	6.16	4.35	6.37	4.50	6.55	4.37
	16	5.32	4.28	5.59	4.23	5.85	4.42	5.96	4.37	6.08	4.32	6.29	4.47	6.48	4.35
	18	5.21	4.23	5.48	4.17	5.75	4.38	5.88	4.33	5.99	4.28	6.21	4.44	6.41	4.32
	20	5.10	4.17	5.37	4.12	5.65	4.33	5.78	4.29	5.90	4.24	6.13	4.41	6.33	4.29
	22	4.98	4.12	5.25	4.07	5.55	4.29	5.69	4.25	5.80	4.20	6.05	4.38	6.25	4.27
	24	4.86	4.06	5.14	4.02	5.45	4.24	5.59	4.21	5.71	4.17	5.96	4.35	6.17	4.24
	26	4.74	4.00	5.01	3.96	5.34	4.20	5.49	4.17	5.61	4.13	5.87	4.31	6.08	4.21
	28	4.61	3.94	4.89	3.90	5.23	4.15	5.39	4.13	5.50	4.09	5.78	4.28	5.99	4.18
	30	4.49	3.88	4.76	3.84	5.11	4.11	5.28	4.09	5.40	4.05	5.68	4.25	5.90	4.16
	32	4.35	3.82	4.63	3.79	5.00	4.05	5.17	4.04	5.29	4.01	5.58	4.21	5.81	4.12
	34	4.22	3.75	4.49	3.73	4.88	4.00	5.06	3.99	5.18	3.94	5.48	4.17	5.71	4.08
	35	4.15	3.72	4.42	3.70	4.82	3.97	5.00	3.96	5.12	3.92	5.43	4.15	5.66	4.07
	36	4.08	3.68	4.35	3.67	4.76	3.94	4.94	3.94	5.06	3.90	5.37	4.13	5.61	4.05
	38	3.94	3.62	4.21	3.60	4.63	3.89	4.82	3.89	4.94	3.86	5.27	4.10	5.50	4.02
	39	3.87	3.59	4.14	3.57	4.57	3.86	4.76	3.87	4.88	3.83	5.21	4.08	5.45	4.00
	40	3.80	3.56	4.07	3.54	4.50	3.84	4.70	3.84	4.82	3.81	5.16	4.06	5.39	3.99
	41	3.73	3.52	3.99	3.51	4.44	3.81	4.64	3.82	4.76	3.79	5.10	4.04	5.34	3.97
	42	3.65	3.49	3.92	3.48	4.37	3.79	4.58	3.80	4.70	3.77	5.04	4.02	5.28	3.95
	43	3.58	3.46	3.84	3.44	4.30	3.76	4.52	3.77	4.63	3.74	4.98	4.00	5.23	3.93
	44	3.51	3.42	3.77	3.41	4.24	3.73	4.45	3.75	4.57	3.72	4.93	3.98	5.17	3.92
	45	3.43	3.39	3.69	3.38	4.17	3.71	4.39	3.72	4.50	3.70	4.87	3.96	5.11	3.90
	46	3.35	3.35	3.61	3.35	4.10	3.68	4.32	3.70	4.44	3.67	4.81	3.94	5.05	3.88

Heating mode (HC) (kW)

Air flow	Outdoor air temperature	Indoor air temperature				
		16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
Hi 17.3 (m^3/min)	-20°CWB	3.19	3.11	3.01	2.94	2.85
	-15°CWB	3.69	3.61	3.53	3.45	3.38
	-10°CWB	4.18	4.10	4.05	3.95	3.86
	-5°CWB	4.52	4.46	4.37	4.32	4.25
	0°CWB	4.74	4.67	4.59	4.54	4.47
	5°CWB	6.04	5.97	5.94	5.82	5.74
	6°CWB	6.14	6.07	6.00	5.92	5.85
	10°CWB	6.52	6.46	6.42	6.34	6.27
	15°CWB	7.10	7.04	6.99	6.91	6.85
	20°CWB	7.63	7.57	7.53	7.45	7.39

Model SRK60ZSX-W, -WB, -WT

Cooling mode (kW)

Air flow	Outdoor air temperature	Indoor air temperature													
		21°CDB		23°CDB		26°CDB		27°CDB		28°CDB		31°CDB		33°CDB	
		14°CWB		16°CWB		18°CWB		19°CWB		20°CWB		22°CWB		24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi 16.3 (m^3/min)	10	6.87	5.31	7.19	5.22	7.46	5.39	7.58	5.32	7.72	5.25	7.94	5.40	8.16	5.22
	12	6.75	5.24	7.07	5.16	7.35	5.35	7.48	5.28	7.62	5.21	7.86	5.37	8.08	5.20
	14	6.62	5.17	6.95	5.09	7.24	5.30	7.38	5.24	7.52	5.17	7.77	5.33	8.00	5.17
	16	6.49	5.11	6.82	5.03	7.13	5.25	7.28	5.19	7.42	5.13	7.68	5.29	7.91	5.14
	18	6.36	5.04	6.69	4.97	7.02	5.20	7.17	5.15	7.31	5.09	7.58	5.26	7.82	5.11
	20	6.22	4.97	6.55	4.90	6.89	5.15	7.06	5.10	7.20	5.04	7.48	5.22	7.73	5.08
	22	6.08	4.90	6.41	4.84	6.77	5.09	6.94	5.04	7.08	4.99	7.38	5.18	7.63	5.05
	24	5.93	4.83	6.27	4.77	6.64	5.03	6.82	5.00	6.96	4.94	7.27	5.15	7.53	5.02
	26	5.78	4.76	6.12	4.71	6.51	4.98	6.70	4.95	6.84	4.89	7.16	5.11	7.42	4.97
	28	5.63	4.68	5.96	4.64	6.38	4.92	6.57	4.90	6.71	4.84	7.05	5.06	7.31	4.94
	30	5.47	4.60	5.81	4.57	6.24	4.86	6.44	4.84	6.58	4.80	6.93	5.01	7.20	4.90
	32	5.31	4.52	5.65	4.49	6.10	4.80	6.31	4.79	6.45	4.74	6.81	4.97	7.08	4.86
	34	5.15	4.45	5.48	4.41	5.95	4.74	6.17	4.73	6.31	4.68	6.68	4.93	6.96	4.82
	35	5.07	4.41	5.40	4.38	5.88	4.71	6.10	4.70	6.24	4.66	6.62	4.91	6.90	4.80
	36	4.98	4.37	5.31	4.34	5.80	4.68	6.03	4.67	6.17	4.63	6.56	4.88	6.84	4.78
	38	4.81	4.29	5.14	4.27	5.65	4.61	5.89	4.61	6.03	4.58	6.42	4.84	6.71	4.74
	39	4.72	4.25	5.05	4.23	5.57	4.58	5.81	4.59	5.95	4.55	6.36	4.81	6.65	4.69
	40	4.64	4.20	4.96	4.19	5.49	4.55	5.74	4.56	5.88	4.52	6.29	4.79	6.58	4.67
	41	4.55	4.16	4.87	4.15	5.41	4.52	5.66	4.53	5.80	4.49	6.22	4.74	6.51	4.65
	42	4.46	4.12	4.78	4.11	5.33	4.48	5.59	4.50	5.73	4.46	6.15	4.72	6.45	4.63
	43	4.37	4.08	4.69	4.06	5.25	4.45	5.51	4.47	5.65	4.43	6.08	4.69	6.38	4.61
	44	4.28	4.04	4.60	4.03	5.17	4.41	5.43	4.44	5.57	4.41	6.01	4.67	6.31	4.59
	45	4.13	3.94	4.44	3.93	5.02	4.32	5.28	4.34	5.42	4.31	5.86	4.58	6.15	4.50
	46	3.85	3.72	4.15	3.71	4.71	4.09	4.96	4.11	5.09	4.08	5.52	4.35	5.80	4.27

Heating mode (HC) (kW)

Air flow	Outdoor air temperature	Indoor air temperature				
		16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
Hi 17.8 (m^3/min)	-20°CWB	3.61	3.52	3.41	3.33	3.23
	-15°CWB	4.18	4.09	4.00	3.92	3.83
	-10°CWB	4.73	4.65	4.59	4.47	4.38
	-5°CWB	5.13	5.05	4.95	4.90	4.82
	0°CWB	5.38	5.30	5.20	5.14	5.07
	5°CWB	6.85	6.77	6.73	6.60	6.51
	6°CWB	6.96	6.88	6.80	6.71	6.63
	10°CWB	7.39	7.32	7.28	7.18	7.11
	15°CWB	8.05	7.98	7.92	7.83	7.76
	20°CWB	8.65	8.58	8.54	8.44	8.37

Notes(1) These data show average statuses.
Depending on the system control, there may be ranges where the operation is not conducted continuously.
These data show the case where the operation frequency of a compressor is fixed.
(2) Capacities are based on the following conditions.
Corresponding refrigerant piping length :5m
Level difference of Zero.
(3) Symbols are as follows.
TC : Total cooling capacity (kW)
SHC : Sensible heat capacity (kW)
HC : Heating capacity (kW)

8. APPLICATION DATA

RLF012A202B

Model SRK20,25,35,50,60ZSX
R32/R410A REFRIGERANT USED

(1) Installation of indoor unit

• This installation manual deals with an indoor unit installation only. For an outdoor unit installation, refer to page 56.
• This unit is designed for R32 or R410A. See a label on the outdoor unit to check refrigerant information.

SAFETY PRECAUTIONS

• Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly follow it during the installation work in order to protect yourself.
• The precautionary items mentioned below are distinguished into two levels, ⚠ WARNING and ⚠ CAUTION .

⚠ WARNING Indicates a potentially hazardous situation which, if not avoided, can result in serious consequences such as death or severe injury.

⚠ CAUTION Indicates a potentially hazardous situation which, if not avoided, can result in personal injury or property damage.

Both mention the important items to protect your health and safety. Therefore, strictly follow them by any means.

• Be sure to confirm no operation problem on the equipment after completing the installation. If unusual noise can be heard during the test run, consult the dealer.
• Be sure to explain the operating methods as well as the maintenance methods of this equipment to the user according to the user's manual.
• Be sure to keep the installation manual together with user's manual at a place where it is easily accessible to the user any time. Moreover, ask the user to hand the manuals to a new user, whenever required.

⚠ WARNING

- **Be sure to use only for residential purpose.**
  If this unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse, etc., it can malfunction.
- **Installation must be carried out by the qualified installer completely in accordance with the installation manual.**
  Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury.
- **Be sure to wear protective goggles and gloves while performing installation work.**
  Improper safety measures can result in personal injury.
- **Use the original accessories and the specified components for the installation.**
  Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury.
- **Do not install the unit near the location where leakage of flammable gases can occur.**
  If leaked gases accumulate around the unit, it can cause fire resulting in property damage and personal injury.
- **When installing the unit in small rooms, make sure that refrigerant density does not exceed the limit (Reference: ISO5149) in the event of leakage.**
  If refrigerant density exceeds the limit, consult the dealer and install the ventilation system.
  Otherwise lack of oxygen can occur resulting in serious accident.
- **Install the unit in a location where unit will remain stable, horizontal and free of any vibration transmission.**
  Unsuitable installation location can cause the unit to fall resulting in material damage and personal injury.
- **Do not run the unit with removed panels or protections.**
  Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shock.
- **This unit is designed specifically for R32 or R410A.**
  Using any other refrigerant can cause unit failure and personal injury.
- **Do not vent R32 or R410A into atmosphere.**
  R32 is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=675.
  R410A is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=2088.
- **Make sure that no air enters the refrigerant circuit when the unit is installed and removed.**
  If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which can cause burst and personal injury.
- **Be sure to use the prescribed pipes, flare nuts and tools for R32 or R410A.**
  Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and personal injury.
- **Be sure to connect both liquid and gas connecting pipes properly before operating the compressor.**
  Do not open the liquid and gas service valves before completing piping work, and evacuation.
  If the compressor is operated when connecting pipes are not connected and service valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resulting in burst or personal injury.
- **Be sure to tighten the flare nuts to specified torque using the torque wrench.**
  Tightening flare nuts with excess torque can cause burst and refrigerant leakage after a long period.
- **During pump down work, be sure to stop the compressor before closing service valves and removing connecting pipes.**
  If the connecting pipes are removed when the compressor is in operation and service valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resulting in burst or personal injury.
- **In the event of refrigerant leakage during installation, be sure to ventilate the working area properly.**
  If the refrigerant comes into contact with naked flames, poisonous gases will be produced.
- **Electrical work must be carried out by the qualified electrician, strictly in accordance with national or regional electricity regulations.**
  Incorrect installation can cause electric shock, fire or personal injury.
- **Make sure that earth leakage breaker and circuit breaker of appropriate capacities are installed.**
  Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate breakers can cause electric shock, personal injury or property damage.
- **Be sure to switch off the power source in the event of installation, maintenance or service.**
  If the power source is not switched off, there is a risk of electric shock, unit failure or personal injury.
- **Be sure to tighten the cables securely in terminal block and relieve the cables properly to prevent overloading the terminal blocks.**
  Loose connections or cable mountings can cause anomalous heat production or fire.
- **Do not process, splice or modify the power cable, or share the socket with other power plugs.**
  Improper power cable or power plug can cause fire or electric shock due to poor connection, insufficient insulation or over-current.
- **Do not perform any change in protective device or its setup condition yourself.**
  Changing protective device specifications can cause electric shock, fire or burst.
- **Be sure to clamp the cables properly so that they do not touch any internal component of the unit.**
  If cables touch any internal component, it can cause overheating and fire.
- **Be sure to install service cover properly.**
  Improper installation can cause electric shock or fire due to intrusion of dust or water.
- **Be sure to use the prescribed power and connecting cables for electrical work.**
  Using improper cables can cause electric leak or fire.
- **This appliance must be connected to main power source by means of a circuit breaker or switch with a contact separation of at least 3mm.**
  Improper electrical work can cause unit failure or personal injury.
- **When plugging this unit, a plug conforming to the standard IEC60884-1 must be used.**
  Using improper plug can cause electric shock or fire.
- **Be sure to connect the power source cable with power source properly.**
  Improper connection can cause intrusion of dust or water resulting in electric shock or fire.

⚠ CAUTION

- **Take care when carrying the unit by hand.**
  If the unit weight is more than 20kg, it must be carried by two or more persons.
  Do not carry the unit by the plastic straps. Always use the carry handle.
- **Do not install the outdoor unit in a location where insects and small animals can inhabit.**
  Insects and small animals can enter the electrical parts and cause damage resulting in fire or personal injury. Instruct the user to keep the surroundings clean.
- **If the outdoor unit is installed at height, make sure that there is enough space for installation, maintenance and service.**
  Insufficient space can result in personal injury due to falling from the height.
- **Do not install the unit near the location where neighbours are bothered by noise or air generating from the unit.**
  It can affect surrounding environment and cause a claim.
- **Do not install in the locations where unit is directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere.**
  It can cause corrosion of heat exchanger and damage to plastic parts.
- **Do not install the unit close to the equipments that generate electromagnetic waves and/or high-harmonic waves.**
  Equipment such as inverters, standby generators, medical high frequency equipments and telecommunication equipments can affect the system, and cause malfunctions and breakdowns.
  The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming.
- **Do not install the unit in the locations where:**
  • There are heat sources nearby.
  • Unit is directly exposed to rain or sunlight.
  • There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.
  • Unit is directly exposed to oil mist and steam such as kitchen.
  • Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid (sulfurous acid etc.), which can harm the unit, will generate or accumulate.
  • Drain water can not be discharged properly.
  • TV set or radio receiver is placed within 1m.
  • Height above sea level is more than 1000m.
  It can cause performance degradation, corrosion and damage of components, unit malfunction and fire.
- **Dispose of all packing materials properly.**
  Packing materials contain nails and wood which can cause personal injury.
  Keep the polybag away from children to avoid the risk of suffocation.
- **Do not put anything on the outdoor unit.**
  Object may fall causing property damage or personal injury.
- **Do not touch the aluminum fin of the outdoor unit.**
  Aluminium fin temperature is high during heating operation. Touching fin can cause burn.
- **Do not touch any refrigerant pipe with your hands when the system is in operation.**
  During operation the refrigerant pipes become extremely hot or extremely cold depending on the operating condition. Touching pipes can cause personal injury like burn (hot/cold).
- **Install isolator or disconnect switch on the power source wiring in accordance with the local codes and regulations.**
  The isolator should be locked in OFF state in accordance with EN60204-1.

1. ACCESSORIES AND TOOLS

Standard accessories (Supplied with indoor unit)

(1)	Installation board	1pc	(5)	Wood screws (for remote control holder ø3.5 X 16mm)		2pcs
(2)	Wireless remote control	1pc	(6)	Batteries [R03 (AAA, Micro) 1.5V]		2pcs
(3)	Remote control holder	1pc	(7)	Air-cleaning filters		2pcs
(4)	Tapping screws (for installation board ø4 X 25mm)	5pcs	(8)	Insulation (#486 50 X 100 t3)		1pc

Locally procured parts

(a)	Sleeve (1pc)
(b)	Sealing plate (1pc)
(c)	Inclination plate (1pc)
(d)	Putty
(e)	Connecting cable
(f)	Drain hose (extension hose)
(g)	Piping cover (for insulation of connection piping)
(h)	Clamp and screw (for finishing work)
(i)	Electrical tape

Tools for installation work

Plus headed driver	Pipe cutter
Knife	Hole core drill (65mm in diameter)
Saw	Wrench key (Hexagon) [4mm]
Tape measure	Flaring tool set*
Torque wrench (14.0-62.0N·m (1.4-6.2kgf·m))	Gas leak detector*
	Pipe bender
Plier	Flare adjustment gauge

* Designed specifically for R32 or R410A

2. SELECTING INSTALLATION LOCATION

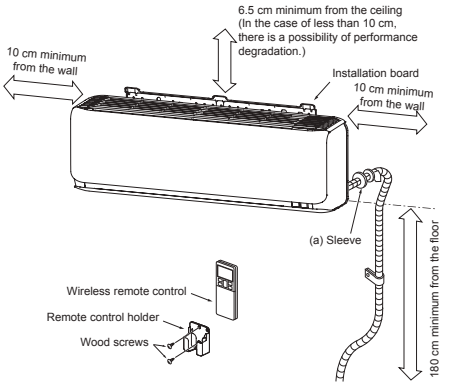
After getting customer's approval, select installation location according to following guidelines.

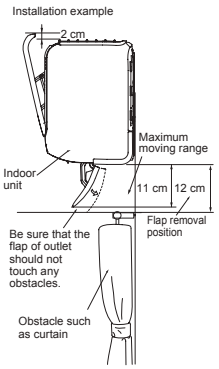
1. Indoor unit

- Where there is no obstruction to the airflow and where the cooled and heated air can be evenly distributed.
- A solid place where the unit or the wall will not vibrate.
- A place where there will be enough space for servicing. (Where space mentioned on the right side can be secured.)
- Where it is easy to conduct wiring and piping work.
- A place where unit is not directly exposed to sunlight or street light.
- A place where it can be easily drained.
- A place separated at least 1m away from the television or the radio. (To prevent interference to images and sounds.)
- A place where this unit is not affected by the high frequency equipment or electric equipment.
- Avoid installing this unit in place where there is much oil mist.
- A place where there is no electric equipment or household.
- Install the indoor unit on the wall where the height from the floor to the bottom of the unit is more than 180 cm.

2. Wireless remote control

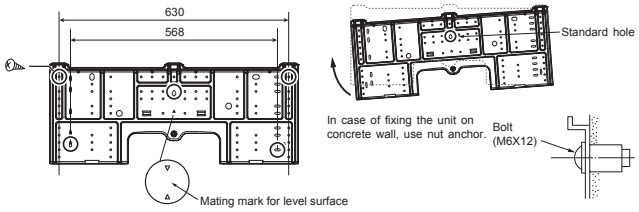
- A place where the air-conditioner can receive the signal surely during operating the wireless remote control.
- A place where it is not affected by the TV, radio etc.
- Do not place where it is exposed to direct sunlight or near heat devices such as a stove.





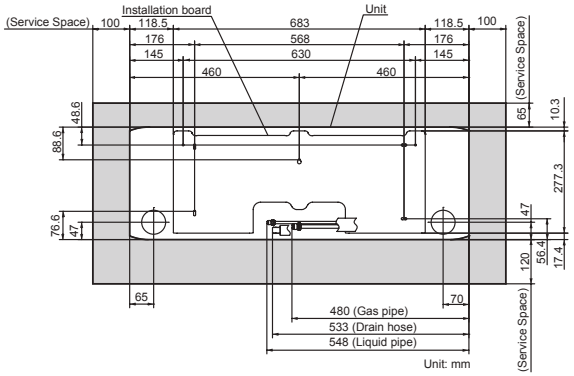
3. INSTALLING INSTALLATION BOARD

- Installation board should be installed on the wall which can support the weight of the indoor unit.
- Adjustment of the installation board in the horizontal direction is to be conducted with 5 screws in a temporary tightened state.
- With the standard hole as a center, adjust the board and level it.



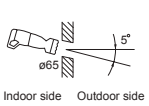
⚠ CAUTION

Improper adjustment of the installation board can cause water leakage.

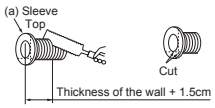


4. DRILLING HOLE AND FIXTURE OF SLEEVE

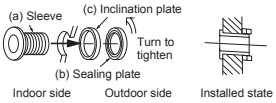
When drilling the wall that contains a metal lath, wire lath or metal plate, be sure to use sealing plate, sleeve and inclination plate (Locally procured parts).



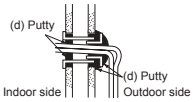
(1) Drill a hole with hole core drill.



(2) Cut sleeve to adjust to wall thickness. In case of rear piping draw out, cut off the lower and the right side portions of the sleeve collar.



(3) Fix sealing plate, sleeve and inclination plate.



(4) After piping work, seal the hole in the wall with putty.

⚠ WARNING

Completely seal the hole in the wall with putty. If not sealed properly, dust, insects, small animals, and highly humid air may enter the room from outside, which could result in fire or other hazards.

⚠ CAUTION

Completely seal the hole in the wall with putty. If not sealed properly, furniture and other fixtures may be damaged by water leakage or condensation.

5. ELECTRICAL WIRING WORK

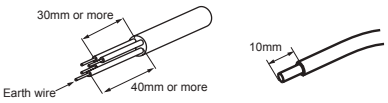
- Before installation, make sure that the power source complies with the air-conditioner's power specification.
- Carry out electrical wiring work according to following guidelines.

1. Preparing cable

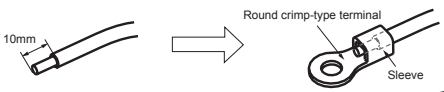
(1) Selecting cable
Select the connecting cable in accordance with the specifications mentioned below.
4-core* 1.5mm² conformed with 60245 IEC57
* 1 Earth wire is included (Yellow/Green).

(2) Arrange each wire length as shown below.
Make sure that each wire is stripped 10mm from the end.

<Connecting cable> <Wire end>



(3) Attach round crimp-type terminal to each wire as shown in the below.
Select the size of round crimp-type terminal after considering the specifications of terminal block and wire diameter.

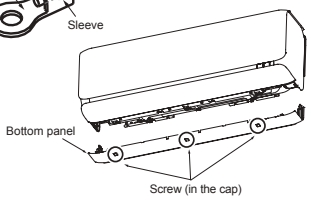


2. Remove bottom panel

(1) Remove the 3 screws (in the cap).
(2) Remove the hooks of left and right side and then bottom panel can be removed.

NOTE

- Open the cap using a fine-tipped tool.
- When opening the cap, exercise care not to damage the design surface.

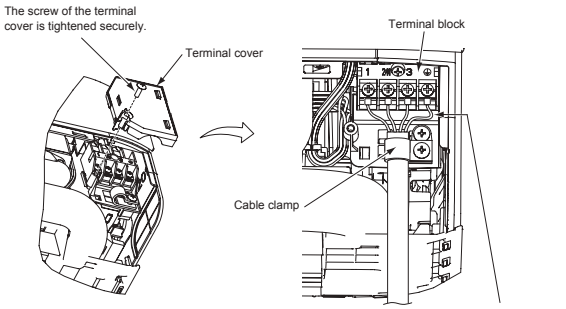


3. Connecting cable

(1) Remove the terminal cover.
(2) Remove the cable clamp.
(3) Connect the connecting wires to the terminal block.
(4) Fix the connecting cable by cable clamp.
(5) Fix the terminal cover.

NOTE

Take care not to confuse the terminal numbers for indoor and outdoor connections.



⚠ WARNING

Incorrect wiring connection can cause malfunction or fire.

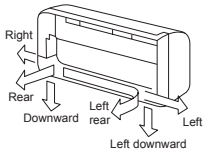
6. FORMING PIPING AND DRAIN HOSE

1. Forming piping

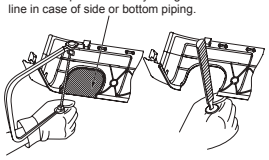
Piping is possible in the right, rear, downward, left, left rear or left downward direction.

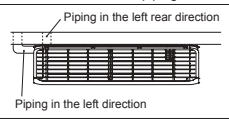
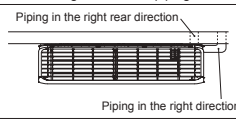
NOTE

Sufficient care must be taken not to damage the panels when connecting pipes.

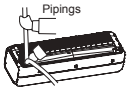


Cut out the panel smoothly along the line in case of side or bottom piping.



Left hand side piping	Right hand side piping
	

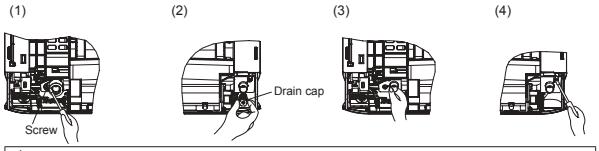
Forming of pipings
- Hold the bottom of the piping and fix direction before stretching it and shaping it.



Taping of the exterior
- Tape only the portion that goes through the wall.
- Always tape the wiring with the piping.

2. Drain change procedures

(1) Remove the screw and drain hose.
(2) Remove the drain cap by hand or pliers.
(3) Insert the drain cap which was removed at procedure (2) securely using a hexagonal wrench etc.
(4) Install the drain hose and screw securely.



⚠ CAUTION

Incorrect installation of drain hose and cap can cause water leakage.

7. DRAINAGE WORK

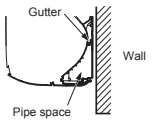
- Arrange the drain hose in a downward angle.
- Avoid the following drain piping.

- Pour water to the drain pan located under the heat exchanger, and ensure that the water is discharged outdoor.
- When extended drain hose is present inside the room, insulate it securely with heat insulator available in the market.

Since this air-conditioner is designed to collect dew drops on the rear surface to the drain pan, do not install the connecting wire above the gutter.

⚠ CAUTION

Incorrect drainage work can cause water leakage.



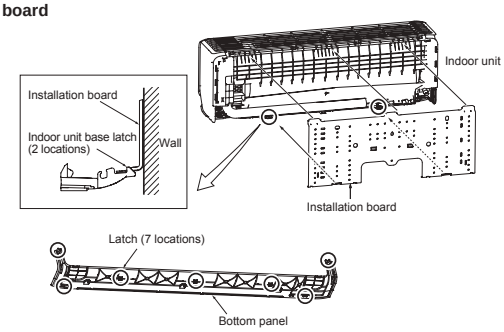
8. INSTALLING INDOOR UNIT

Installing the indoor unit to installation board

(1) Pass the pipe through the hole in the wall, and hook the upper part of the indoor unit to the installation board.

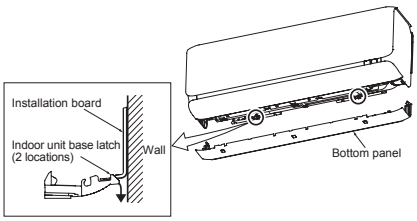
(2) Gently push the lower part to fix the indoor unit base lower latch to installation board.

(3) Install the latches of the bottom panel (7 locations).
Secure the bottom panel with the 3 screws (in the cap).



Removing the indoor unit from installation board

(1) Remove the bottom panel. (Refer to 5.2)
(2) Pull the indoor unit base latch downward. (both right and left hand sides). (The indoor unit base latch can be removed from the installation board.)
(3) Push up the indoor unit upward so that it can be removed from installation board.



9. CONNECTING PIPING WORK

1. Preparation of connecting pipe

1.1. Selecting connecting pipe

Select connecting pipe according to the following table.

	Model SRK20/25/35	Model SRK50/60
Gas pipe	ø9.52	ø12.7
Liquid pipe	ø6.35	ø6.35

- Pipe wall thickness must be greater than or equal to 0.8 mm.
- Pipe material must be O-type (Phosphorus deoxidized seamless copper pipe ICS 23.040.15, ICS 77.150.30).

1.2. Cutting connecting pipe

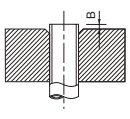
(1) Cut the connecting pipe to the required length with pipe cutter.
(2) Hold the pipe downward and remove the burrs. Make sure that no foreign material enters the pipe.
(3) Cover the connecting pipe ends with the tape.

2. Piping work

2.1. Flaring pipe

(1) Take out flare nuts from the service valves of indoor unit and engage them onto connecting pipes.
(2) Flare the pipes according to table and figure shown below.
Flare dimensions for R32 are different from those for conventional refrigerant.
Although it is recommended to use the flaring tools designed specifically for R32 or R410A, conventional flaring tools can also be used by adjusting the measurement of protrusion B with a flare adjustment gauge.

Copper pipe outer diameter	$A^{0}_{-0.4}$
ø6.35	9.1
ø9.52	13.2
ø12.7	16.6

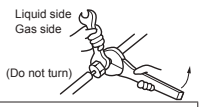


Copper pipe outer diameter	Rigid (clutch) type	
	R32 or R410A	Conventional
ø6.35	0-0.5	1.0-1.5
ø9.52		
ø12.7		

2.2 Connecting pipes

(1) Connect pipes on both liquid and gas sides.
(2) Tighten nuts to specified torque shown in the table below.

Service valve size (mm)	Tightening torque (N·m)
ø6.35 (1/4")	14-18
ø9.52 (3/8")	34-42
ø12.7 (1/2")	49-61

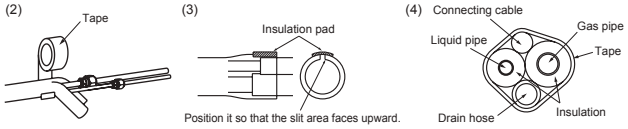


⚠ CAUTION

- Do not apply refrigerating machine oil to the flared surface. It can cause refrigerant leakage.
- Do not apply excess torque to the flared nuts. The flared nuts may crack resulting in refrigerant leakage.

3. Heating and condensation prevention

(1) Dress the connecting pipes (both liquid and gas pipes) with insulation to prevent it from heating and dew condensation.
Use the heat insulating material which can withstand 120°C or higher temperature. Make sure that insulation is wrapped tightly around the pipes and no gap is left between them.
(2) Wrap the refrigerant pipings of indoor unit with indoor unit heat insulation using tape.
(3) Cover the flare-connected joints (indoor side) with the indoor unit heat insulation and wrap it with an insulation pad (standard accessory provided with indoor unit).
(4) Wrap the connecting pipes, connecting cable and drain hose with the tape.



NOTE

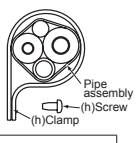
Locations where relative humidity exceeds 70%, both liquid and gas pipes need to be dressed with 20mm or thicker heat insulation materials.

⚠ CAUTION

- Improper insulation can cause condensate(water) formation during cooling operation. Condensate can leak or drip causing damage to household property.
- Poor heat insulating capacity can cause pipe outer surface to reach high temperature during heating operation. It can cause cable deterioration and personal injury.

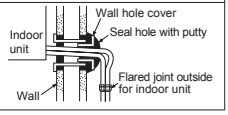
4. Finishing work

(1) Make sure that the exterior portion of connecting pipes, connecting cable and drain hose is wrapped properly with tape. Shape the connecting pipes to match with the contours of the pipe assembly route.
(2) Fix the pipe assembly with the wall using clamps and screws. Pipe assembly should be anchored every 1.5m or less to isolate the vibration.
(3) Install the service cover securely. Water may enter the unit if service cover is not installed properly, resulting in unit malfunction and failure.



⚠ WARNING (only for R32)

- To avoid the risk of fire or explosion, the flared connection must/shall be installed outdoors.
- Reusable mechanical connectors and flared joints are not allowed indoors.



⚠ CAUTION

Make sure that the connecting pipes do not touch the components within the unit. If pipes touch the internal components, it may generate abnormal sounds and/or vibrations.

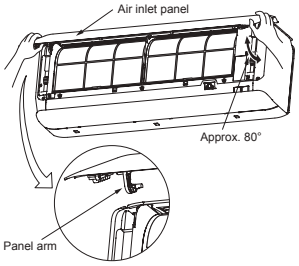
10. HOW TO OPEN, CLOSE, REMOVE AND INSTALL THE AIR INLET PANEL

1. Open
Pull the air inlet panel at both ends of lower part and release latches, then pull up the panel until you feel resistance.
(The panel stops at approx. 60° open position)

2. Close
Hold the panel at both ends of lower part, lower it downward slowly, then push it slightly until the latch works.

3. Removing
Open the panel by 80° (as shown in the right illustration) and then pull it forward.

4. Installing
Insert the panel arm into the slot on the front panel from the position shown in right illustration, hold the panel at both ends of lower part, lower it downward slowly, then push it slightly until the latch works.



NOTE
- When carrying out maintenance, handle the air inlet panel with care.

11. HOW TO REMOVE AND INSTALL THE SIDE AND FRONT PANEL

1. Side panel (R/L)

1.1. Removing
(1) Remove the 2 screws.
(2) Remove the 3 latches and then side panel can be removed.

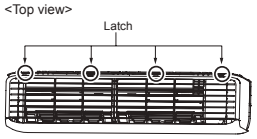
1.2. Installing
(1) Cover the unit with the side panel and fix 3 latches.
(2) Secure the side panel with the 2 screws.

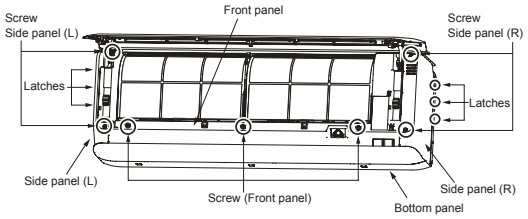
2. Front panel

2.1. Removing
(1) Remove the side panel (R/L), the air inlet panel, the air filters and the bottom panel.
(2) Remove the 3 screws.
(3) Remove the 4 upper latches and then front panel can be removed.

2.2. Installing
(1) Cover the unit with the front panel and fix 4 upper latches.
(2) Secure the front panel with the 3 screws.
(3) Install the bottom panel, the side panel (R/L), the air inlet panel and the air filters.

<Top view>

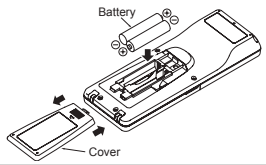




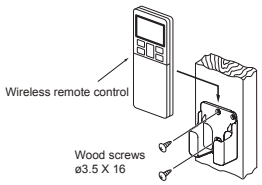
12. INSTALLING WIRELESS REMOTE CONTROL

Mount the batteries
(1) Slide and take out the cover of backside.
(2) Mount the batteries [R03 (AAA, Micro), ×2 pieces] in the body properly.
(Fit he poles with the indication marks + & −)
(3) Set the cover again.

NOTE
- Do not use new and old batteries together.
- In case the unit is not operated for a long time, take out the batteries



Installing remote control holder
(1) Select the place where the unit can receive signals.
(2) Fix the holder to pillar or wall with wood screws.

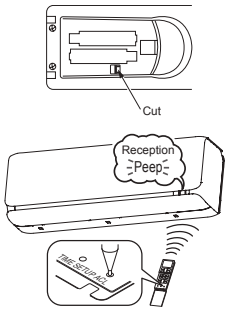


13. INSTALLING TWO AIR-CONDITIONERS IN THE SAME ROOM

In case two air-conditioners are installed in the same room, apply this setting so that one unit can be operated with only one wireless remote control.

Setting one wireless remote control
(1) Slide and take out the cover and batteries.
(2) Cut the switching line next to the battery with wire cutters.
(3) Set the batteries and cover again.

Setting one indoor unit
(1) Turn off the power source and turn it on after 1 minute.
(2) Send the signal by pressing the ACL switch on the wireless remote control that was set according to the procedure described on the above side.
(3) Check that the reception buzzer sound "Peep" is emitted from the indoor unit. Since the signal is sent about 6 seconds after the ACL switch is pressed, point the wireless remote control to the indoor unit for a while.



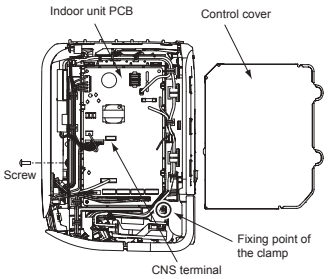
NOTE
If no reception buzzer is emitted, restart the setting from the beginning.

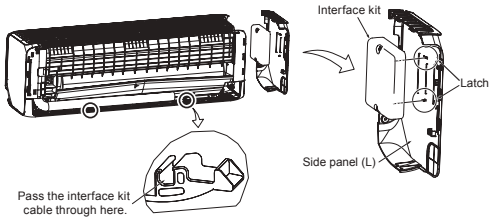
14. TERMINAL CONNECTION FOR AN INTERFACE

To install wired remote control, superlink etc., interface kit is needed.

(1) Remove the air inlet panel, bottom panel and side panel (R).
(2) Remove the control cover. (Remove the screw.)
(3) There is a terminal (respectively marked with CNS) for the indoor control board. While connecting an interface, connect to the respective terminal securely with the connection harness supplied with an option "Interface kit SC-BIKN-E and SC-BIKN2-E" and fasten the connection harness onto the indoor control box with the clamp and screw supplied with the kit.
(4) Hook to fix the interface kit to the 2 latches on side panel (L).
For more details, refer to the user's manual of "Interface kit SC-BIKN-E and SC-BIKN2-E".

<Right side>



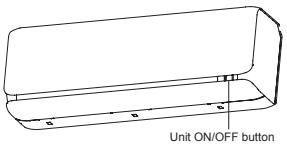


15. PUMP DOWN WORK

For the environmental protection, be sure to pump down when relocating or disposing of the unit. Pump down is the method of recovering refrigerant from the indoor unit to the outdoor unit before the connecting pipes are removed from the unit. When pump down is carried out, forced cooling operation is needed.

Forced cooling operation
(1) Turn off the power source and turn it on again after 1 minute. The air inlet panel and flap open and close.
(2) After the air inlet panel closes, press the ON/OFF button continuously for at least 5 seconds. Then operation will start.

For the detail of pump down, refer to the installation manual of outdoor unit.



16. INSTALLATION CHECK AND TEST RUN

After finishing the installation work, check the following points again before turning on the power. Conduct a test run and ensure that the unit operates properly.
At the same time, explain to the customer how to use the unit and how to take care of the unit following the user's manual.

Before test run
Before test run, check following points.

Power source voltage complies with the rated voltage of air-conditioner.	
Earth leakage breaker and circuit breaker are installed.	
Power cable and connecting cable are securely fixed to the terminal block.	
Both liquid and gas service valves are fully open.	
No gas leaks from the joints of the service valves.	
Indoor and outdoor side pipe joints have been insulated.	
Hole on the wall is completely sealed with putty.	
Drain hose and cap are installed properly.	
Screw of the terminal cover is tightened securely.	

Test run
Check following points during test run.

Indoor unit receives signal of wireless remote control.	
Air-conditioning operation is normal.	
There is no abnormal noise.	
Water drains out smoothly.	
Display of wireless remote control is normal.	

After test run

Explain the operating and maintenance methods to the user according to the user's manual.	
Keep this installation manual together with user's manual.	

NOTE
During restart or change in operation mode, the unit will not start operating for approximately 3 minutes. This is to protect the unit and it is not malfunction.

(2) Installation of outoor unit

RWC012A063B

Model SRC20,25,35,40,50,60ZSX-W SRC20,25,35ZSX-WA
R32 REFRIGERANT USED

• This installation manual deals with an outdoor unit installation only. For an indoor unit installation, refer to page 52.

SAFETY PRECAUTIONS

• Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly follow it during the installation work in order to protect yourself.
• The precautionary items mentioned below are distinguished into two levels, ⚠ WARNING and ⚠ CAUTION .

⚠ WARNING Indicates a potentially hazardous situation which, if not avoided, can result in serious consequences such as death or severe injury.
⚠ CAUTION Indicates a potentially hazardous situation which, if not avoided, can result in personal injury or property damage.

Both mention the important items to protect your health and safety. Therefore, strictly follow them by any means.

• Be sure to confirm no operation problem on the equipment after completing the installation. If unusual noise can be heard during the test run, consult the dealer.
• Be sure to explain the operating methods as well as the maintenance methods of this equipment to the user according to the user's manual.
• Be sure to keep the installation manual together with user's manual at a place where it is easily accessible to the user any time. Moreover, ask the user to hand the manuals to a new user, whenever required.

⚠ WARNING

- **Be sure to use only for residential purpose.**
  If this unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse, etc., it can malfunction.
- **Installation must be carried out by the qualified installer completely in accordance with the installation manual.**
  Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury.
- **Be sure to wear protective goggles and gloves while performing installation work.**
  Improper safety measures can result in personal injury.
- **Use the original accessories and the specified components for the installation.**
  Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury.
- **Do not install the unit near the location where leakage of flammable gases can occur.**
  If leaked gases accumulate around the unit, it can cause fire resulting in property damage and personal injury.
- **When installing the unit in small rooms, make sure that refrigerant density does not exceed the limit (Reference: ISO5149) in the event of leakage.**
  If refrigerant density exceeds the limit, consult the dealer and install the ventilation system.
  Otherwise lack of oxygen can occur resulting in serious accident.
- **Install the unit in a location where unit will remain stable, horizontal and free of any vibration transmission.**
  Unsuitable installation location can cause the unit to fall resulting in material damage and personal injury.
- **Do not run the unit with removed panels or protections.**
  Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shock.
- **This unit is designed specifically for R32.**
  Using any other refrigerant can cause unit failure and personal injury.
- **Do not vent R32 into atmosphere.**
  R32 is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=675.
- **Make sure that no air enters the refrigerant circuit when the unit is installed and removed.**
  If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which can cause burst and personal injury.
- **Be sure to use the prescribed pipes, flare nuts and tools for R32 or R410A.**
  Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and personal injury.
- **Be sure to connect both liquid and gas connecting pipes properly before operating the compressor.**
  Do not open the liquid and gas operation valves before completing piping work, and evacuation.
  If the compressor is operated when connecting pipes are not connected and operation valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resulting in burst or personal injury.
- **Be sure to tighten the flare nuts to specified torque using the torque wrench.**
  Tightening flare nuts with excess torque can cause burst and refrigerant leakage after a long period.
- **During pump down work, be sure to stop the compressor before closing service valves and removing connecting pipes.**
  If the connecting pipes are removed when the compressor is in operation and service valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resulting in burst or personal injury.
- **In the event of refrigerant leakage during installation, be sure to ventilate the working area properly.**
  If the refrigerant comes into contact with naked flames, poisonous gases will be produced.
- **Electrical work must be carried out by the qualified electrician, strictly in accordance with national or regional electricity regulations.**
  Incorrect installation can cause electric shock, fire or personal injury.
- **Make sure that earth leakage breaker and circuit breaker of appropriate capacities are installed.**
  Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate breakers can cause electric shock, personal injury or property damage.
- **Be sure to switch off the power source in the event of installation, maintenance or service.**
  If the power source is not switched off, there is a risk of electric shock, unit failure or personal injury.
- **Be sure to tighten the cables securely in terminal block and relieve the cables properly to prevent overloading the terminal blocks.**
  Loose connections or cable mountings can cause anomalous heat production or fire.
- **Do not process, splice or modify the power cable, or share the socket with other power plugs.**
  Improper power cable or power plug can cause fire or electric shock due to poor connection, insufficient insulation or over-current.
- **Do not perform any change in protective device or its setup condition yourself.**
  Changing protective device specifications can cause electric shock, fire or burst.
- **Be sure to clamp the cables properly so that they do not touch any internal component of the unit.**
  If cables touch any internal component, it can cause overheating and fire.
- **Be sure to install service cover properly.**
  Improper installation can cause electric shock or fire due to intrusion of dust or water.
- **Be sure to use the prescribed power and connecting cables for electrical work.**
  Using improper cables can cause electric leak or fire.
- **This appliance must be connected to main power source by means of a circuit breaker or switch with a contact separation of at least 3mm.**
  Improper electrical work can cause unit failure or personal injury.
- **When plugging this unit, a plug conforming to the standard IEC60884-1 must be used.**
  Using improper plug can cause electric shock or fire.
- **Be sure to connect the power source cable with power source properly.**
  Improper connection can cause intrusion of dust or water resulting in electric shock or fire.

⚠ CAUTION

- **Take care when carrying the unit by hand.**
  If the unit weight is more than 20kg, it must be carried by two or more persons.
  Do not carry the unit by the plastic straps. Always use the carry handle.
- **Do not install the outdoor unit in a location where insects and small animals can inhabit.**
  Insects and small animals can enter the electrical parts and cause damage resulting in fire or personal injury. Instruct the user to keep the surroundings clean.
- **If the outdoor unit is installed at height, make sure that there is enough space for installation, maintenance and service.**
  Insufficient space can result in personal injury due to falling from the height.
- **Do not install the unit near the location where neighbours are bothered by noise or air generating from the unit.**
  It can affect surrounding environment and cause a claim.
- **Do not install in the locations where unit is directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere.**
  It can cause corrosion of heat exchanger and damage to plastic parts.
- **Do not install the unit close to the equipments that generate electromagnetic waves and/or high-harmonic waves.**
  Equipment such as inverters, standby generators, medical high frequency equipments and telecommunication equipments can affect the system, and cause malfunctions and breakdowns.
  The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming.
- **Do not install the unit in the locations where:**
  • There are heat sources nearby.
  • Unit is directly exposed to rain or sunlight.
  • There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.
  • Unit is directly exposed to oil mist and steam such as kitchen.
  • Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid (sulfurous acid etc.), which can harm the unit, will generate or accumulate.
  • Drain water can not be discharged properly.
  • TV set or radio receiver is placed within 1m.
  • Height above sea level is more than 1000m.
  It can cause performance degradation, corrosion and damage of components, unit malfunction and fire.
- **Dispose of all packing materials properly.**
  Packing materials contain nails and wood which can cause personal injury.
  Keep the polybag away from children to avoid the risk of suffocation.
- **Do not put anything on the outdoor unit.**
  Object may fall causing property damage or personal injury.
- **Do not touch the aluminum fin of the outdoor unit.**
  Aluminium fin temperature is high during heating operation. Touching fin can cause burn.
- **Do not touch any refrigerant pipe with your hands when the system is in operation.**
  During operation the refrigerant pipes become extremely hot or extremely cold depending on the operating condition. Touching pipes can cause personal injury like burn (hot/cold).
- **Install isolator or disconnect switch on the power source wiring in accordance with the local codes and regulations.**
  The isolator should be locked in OFF state in accordance with EN60204-1.

1. ACCESSORIES AND TOOLS

Standard accessories (Supplied with outdoor unit)		Q'ty
(1)	Drain grommet	4
(2)	Drain elbow	1

*Not included for SRC20, 25, or 35ZSX-WA.

Locally procured parts	
(a)	Anchor bolt(M10-M12)×4 pcs
(b)	Putty
(c)	Electrical tape
(d)	Connecting pipe
(e)	Connecting cable
(f)	Power cable
(g)	Clamp and screw (for finishing work)

Tools for installation work		
Plus headed driver	Spanner wrench	Vacuum pump*
Knife	Torque wrench [14.0-62.0N•m(1.4-6.2kgf•m)]	Gauge manifold *
Saw	Wrench key (Hexagon) [4mm]	Charge hose *
Tape measure	Flaring tool set *	Vacuum pump adapter* (Anti-reverse flow type)
Pipe cutter	Flare adjustment gauge	Gas leak detector *

*Designed specifically for R32 or R410A

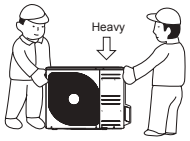
2. OUTDOOR UNIT INSTALLATION

Note as a unit designed for R32

- Do not use any refrigerant other than R32. R32 will rise to pressure about 1.6 times higher than that of a conventional refrigerant. A cylinder containing R32 has a light blue indication mark on the top.
- Do not use a charge cylinder. The use of a charge cylinder will cause the refrigerant composition to change, which results in performance degradation.
- In charging refrigerant, always take it out from a cylinder in the liquid phase.
- All indoor units must be models designed exclusively for R32. Check connectable indoor unit models in a catalog, etc. (A wrong indoor unit, if connected into the system, will impair proper system operation)

1. Haulage

- Always carry or move the unit with two or more persons.
- The right hand side of the unit as viewed from the front (outlet side) is heavier.
  A person carrying the right hand side must take care of this fact.
  A person carrying the left hand side must hold the handle provided on the front panel of the unit with his right hand and the corner column section of the unit with his left hand.



⚠ CAUTION

When a unit is hauled, take care of its gravity center position which is shifted towards right hand side.
If the unit is not hauled properly, it can go off balance and fall resulting in serious injury.

2. Selecting the installation location

Select the suitable installation location where:

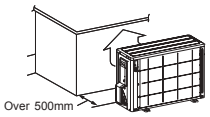
- Unit will be stable, horizontal and free of any vibration transmission.
- There is no obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.
- There is enough space for service and maintenance of unit.
- Neighbours are not bothered by noise or air generating from the unit.
- Outlet air of the unit does not blow directly to animals or plants.
- Drain water can be discharged properly.
- There is no risk of flammable gas leakage.
- There are no other heat sources nearby.
- Unit is not directly exposed to rain or sunlight.
- Unit is not directly exposed to oil mist and steam.
- Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid (sulfurous acid etc.), which can harm the unit, will not generate or accumulate.
- Unit is not directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere.
- No TV set or radio receiver is placed within 1m.
- Unit is not affected by electromagnetic waves and/or high-harmonic waves generated by other equipments.
- Strong wind does not blow against the unit outlet.
- Heavy snowfalls do not occur (If installed, provide proper protection to avoid snow accumulation).

NOTE

If the unit is installed in the area where there is a possibility of strong wind or snow accumulation, the following measures are required.

(1) Location of strong wind

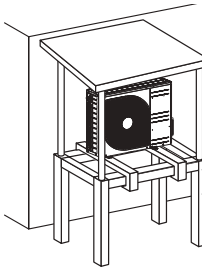
- Place the unit with its outlet side facing the wall.



- Place the unit such that the direction of air from the outlet gets perpendicular to the wind direction.

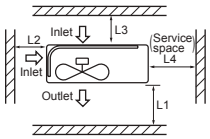
(2) Location of snow accumulation

- Install the unit on the base so that the bottom is higher than snow cover surface.
- Install the unit under eaves or provide the roof on site.



3. Installation space

- There must be 1 meter or larger space between the unit and the wall in at least 1 of the 4 sides. Walls surrounding the unit from 4 sides is not acceptable. The wall height on the outlet side should be 1200 mm or less. Refer to the following figure and table for details.



(mm)

Size \ Example installation	I	II	III	IV
L1	Open	280	280	180
L2	100	75	Open	Open
L3	100	80	80	80
L4	250	Open	250	Open

NOTE

When more than one unit are installed side by side, provide a 250mm or wider interval between them as a service space.

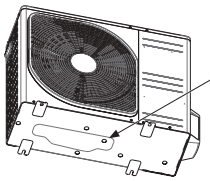
⚠ CAUTION

When more than one unit are installed in parallel directions, provide sufficient inlet space so that short-circuiting may not occur.

4. Drain piping work (If necessary)

Carry out drain piping work by using a drain elbow and a drain grommet supplied separately as accessories if condensed water needs to be drained out.
(1) Install drain elbow and drain grommet.
(2) Seal around the drain elbow and drain grommet with putty or adequate caulking material.

<SRC20/25/35/40/50/60ZSX-W>

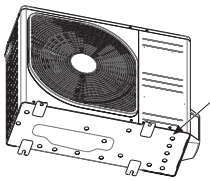


Do not put a grommet on this hole.
This is a supplementary drain hole to discharge drain water, when a large amount of it is gathered.

⚠ CAUTION

Do not use drain elbow and drain grommet if there is a possibility to have several consecutive days of sub zero temperature. (There is a risk of drain water freezing inside and blocking the drain.)

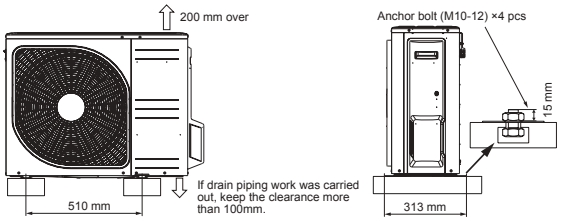
<SRC20/25/35ZSX-WA>



Do not block the drain holes when installing the outdoor unit.

5. Installation

- Install the unit on a flat level base.
- While installing the unit, keep space and fix the unit's legs with 4 anchor bolts as shown in the figure below. The protrusion of an anchor bolt from the foundation surface must be kept within 15mm.



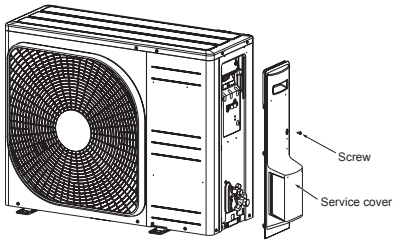
⚠ CAUTION

- Install the unit properly so that it does not fall over during earthquake, strong wind, etc.
- Make sure that unit is installed on a flat level base. Installing unit on uneven base may result in unit malfunction.

3. PREPARATION FOR WORK

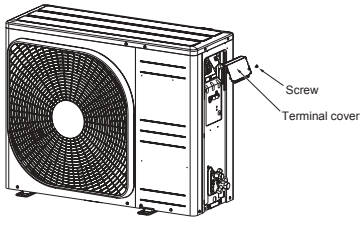
1. Removing service cover

Remove the screw. Slide service cover downwards and remove it.



2. Removing terminal cover

Remove the screw and take out terminal cover.

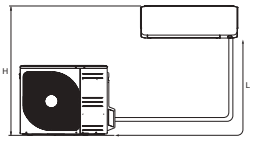


4. CONNECTING PIPING WORK

1. Restrictions on unit installation

Abide by the following restrictions on unit installation.
Improper installation can cause compressor failure or performance degradation.

	Dimensional restrictions	
	Model SRC20/25/35	Model SRC40/50/60
Connecting pipe length(L)	25m or less	30m or less
Elevation difference between indoor and outdoor units(H)*	15m or less	20m or less



* Outdoor unit installation position can be higher as well as lower than the indoor unit installation position.

2. Preparation of connecting pipe

2.1. Selecting connecting pipe

Select connecting pipe according to the following table.

	Model SRC20/25/35	Model SRC40/50/60
Gas pipe	ø9.52	ø12.7
Liquid pipe	ø6.35	ø6.35

- Pipe wall thickness must be greater than or equal to 0.8 mm.
- Pipe material must be O-type (Phosphorus deoxidized seamless copper pipe ICS 23.040.15, ICS 77.150.30).

NOTE

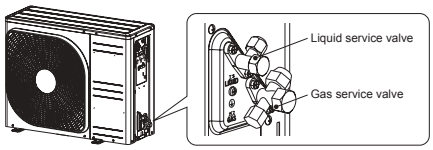
If it is required to reuse the existing connecting pipe system, refer to 5. UTILIZATION OF EXISTING PIPE.

2.2. Cutting connecting pipe

(1) Cut the connecting pipe to the required length with pipe cutter.
(2) Hold the pipe downward and remove the burrs. Make sure that no foreign material enters the pipe.
(3) Cover the connecting pipe ends with the tape.

3. Piping work

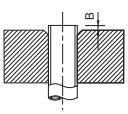
Check that both liquid and gas service valves are fully closed.
Carry out the piping work with service valves fully closed.



3.1. Flaring pipe

(1) Take out flare nuts from the service valves of outdoor unit and engage them onto connecting pipes.
(2) Flare the pipes according to table and figure shown below.
Flare dimensions for R32 are different from those for conventional refrigerant.
Although it is recommended to use the flaring tools designed specifically for R32 or R410A, conventional flaring tools can also be used by adjusting the measurement of protrusion B with a flare adjustment gauge.

Copper pipe outer diameter	$A^{0}_{-0.4}$
ø6.35	9.1
ø9.52	13.2
ø12.7	16.6

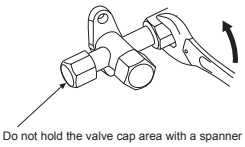


Copper pipe outer diameter	Rigid (clutch) type	
	R32 or R410A	Conventional
ø6.35	0-0.5	1.0-1.5
ø9.52		
ø12.7		

3.2. Connecting pipes

(1) Connect pipes on both liquid and gas sides.
(2) Tighten nuts to specified torque shown in the table below.

Service valve size (mm)	Tightening torque (N·m)
ø6.35 (1/4")	14-18
ø9.52 (3/8")	34-42
ø12.7 (1/2")	49-61



Do not hold the valve cap area with a spanner

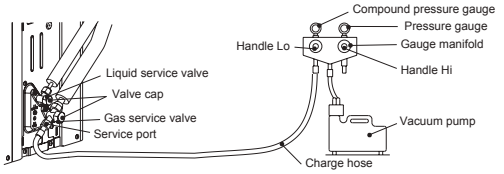
⚠ CAUTION

- Do not apply refrigerating machine oil to the flared surface. It can cause refrigerant leakage.
- Do not apply excess torque to the flared nuts. The flared nuts may crack resulting in refrigerant leakage.

4. Evacuation

(1) Connect vacuum pump to gauge manifold. Connect charge hose of gauge manifold to service port of outdoor unit.
(2) Run the vacuum pump for at least one hour after the vacuum gauge shows -0.1MPa (–76cm Hg).
(3) Confirm that the vacuum gauge indicator does not rise even if the system is left for 15 minutes or more.
Vacuum gauge indicator will rise if the system has moisture left inside or has a leakage point.
Check the system for the leakage point. If leakage point is found, repair it and return to (1) again.
(4) Close the Handle Lo and stop the vacuum pump.
Keep this state for a few minutes to make sure that the compound pressure gauge pointer does not swing back.
(5) Remove valve caps from liquid service valve and gas operation valve.
(6) Turn the liquid service valve's rod 90 degree counterclockwise with a hexagonal wrench key to open valve.
Close it after 5 seconds, and check for gas leakage.
Using soapy water, check for gas leakage from indoor unit's flare and outdoor unit's flare and valve rods.
Wipe off all the water after completing the check.
(7) Disconnect charging hose from gas service valve's service port and fully open liquid and gas service valves. (Do not attempt to turn valve rod beyond its stop.)
(8) Tighten service valve caps and service port cap to the specified torque shown in the table below.

Service valve size (mm)	Service valve cap tightening torque (N·m)	Service port cap tightening torque (N·m)
ø6.35 (1/4")	20-30	10-12
ø9.52 (3/8")		
ø12.7 (1/2")	25-35	



⚠ CAUTION

To prevent vacuum pump oil from entering into the refrigerant system, use a counterflow prevention adapter.

5. Additional refrigerant charge

Additional refrigerant charge is required only when connecting pipe length exceeds 15 m.

5.1 Calculating additional refrigerant charge

Additional refrigerant charge can be calculated using the formula given below.
Additional refrigerant charge (g) = { Connecting pipe length (m) – Factory charged length 15 (m) } x 20 (g/m)

NOTE

- If additional refrigerant charge calculation result is negative, there is no need to remove the refrigerant.
- If refrigerant recharge is required for the unit with connecting pipe length 15m or shorter, charge the factory charged amount as shown in the table below.
- The maximum refrigerant charge amount is designed as shown in the table below.

	Model SRC 20/25/35	Model SRC40/50/60
The factory refrigerant charge amount(kg)	1.20	1.30
The maximum refrigerant charge amount(kg)	1.40	1.60

5.2 Charging refrigerant

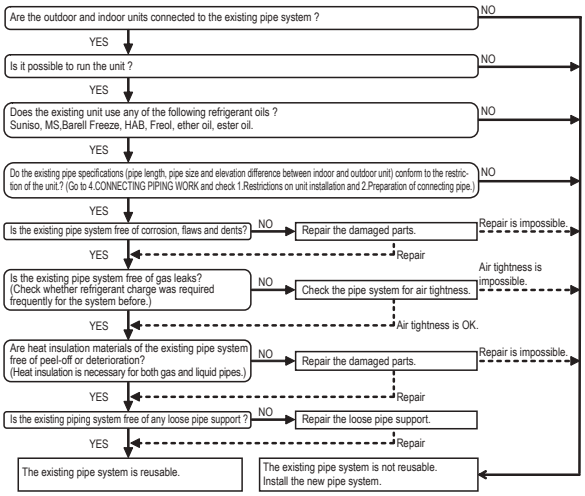
(1) Charge the R32 refrigerant in liquid phase from service port with both liquid and gas service valves shut. Since R32 refrigerant must be charged in the liquid phase, make sure that refrigerant is discharged from the cylinder in the liquid phase all the time.
(2) When it is difficult to charge a required refrigerant amount, fully open both liquid and gas service valves and charge refrigerant, while running the unit in the cooling mode. When refrigerant is charged with the unit being run, complete the charge operation within 30 minutes.
(3) Write the additional refrigerant charge calculated from the connecting pipe length on the label attached on the service cover.

⚠ CAUTION

- Running the unit with an insufficient quantity of refrigerant for a long time can cause unit malfunction.
- Do not charge more than the maximum refrigerant amount. It can cause unit malfunction.

5. UTILIZATION OF EXISTING PIPE

(1) Check whether an existing pipe system is reusable or not by using the following flow chart.



NOTE

- Consult with our distributor in the area, if you need to recover refrigerant and charge it again.

(2) Clean the existing pipe system according to the procedure given below.
(a) Carry out forced cooling operation of existing unit for 30 minutes.
For 'Forced cooling operation' refer to the indoor unit installation manual.
(b) Stop the indoor fan and carry out forced cooling operation for 3 minutes (Liquid return).
(c) Close the liquid service valve of the outdoor unit and carry out pump down operation (Refer to 6. PUMP DOWN).
(d) Blow with nitrogen gas. If discolored refrigeration oil or any foreign matter is discharged by the blow, wash the pipe system or install a new pipe system.
(3) Remove the flare nuts from the existing pipe system. Go back to 4.CONNECTING PIPING WORK and proceed to step 2.2 Cutting connecting pipe.

⚠ CAUTION

- Do not use the old flare nuts (of existing unit). Make sure that the flare nuts supplied with the (new) outdoor unit are used.
- If the flared / compression connection to the indoor unit is located inside the house / room then this pipework can't be reused.

* If the existing piping is specified as liquid pipe ø9.52 or gas pipe ø12.7, refer to the following. (SRC40,50 and 60 only)

<Table of pipe size restrictions>

Additional charge volume per meter of pipe		0.054kg/m
Pipe size	Liquid pipe	ø9.52
	Gas pipe	ø12.7
Maximum one-way pipe length		10
Length covered without additional charge		5

Additional charge amount (kg) = {Main pipe length (m) - Length covered without additional charge shown in the table (m)} X Additional charge amount per meter of pipe shown in the table (kg/m)

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