



Manual No.'18 • SRK-DB-256

updated December 3, 2018

DATA BOOK

INVERTER WALL MOUNTED TYPE RESIDENTIAL AIR-CONDITIONERS (Split system, air to air heat pump type)

SRK25ZSP-W

SRK35ZSP-W

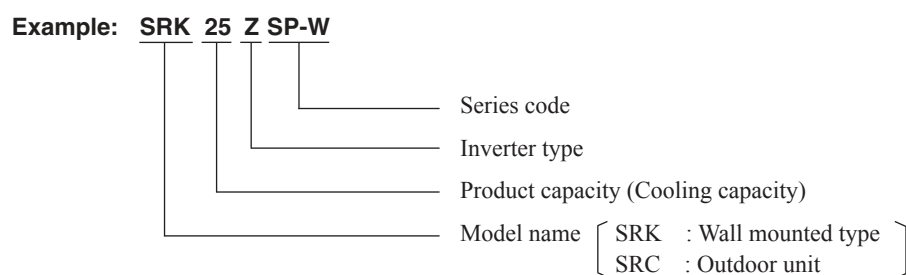
SRK45ZSP-W

MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.

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■ How to read the model name



1. SPECIFICATIONS

Model SRK25ZSP-W

Item			Model	SRK25ZSP-W				
				Indoor unit		SRK25ZSP-W	Outdoor unit	
Power source				1 Phase, 220 - 240V, 50Hz				
Operation data	Nominal cooling capacity (range)		kW	2.5 (0.9 (Min.) - 3.1 (Max.))				
	Nominal heating capacity (range)		kW	2.8 (1.0 (Min.) - 4.1 (Max.))				
	Heating capacity (H2)		kW	-				
	Power consumption	Cooling	kW	0.710 (0.20 - 1.01)				
		Heating		0.690 (0.20 - 1.43)				
		Heating (H2)		-				
	Max power consumption			1.65				
	Running current	Cooling	A	3.6 / 3.4 / 3.3 (220/ 230/ 240 V)				
		Heating		3.5 / 3.4 / 3.2 (220/ 230/ 240 V)				
	Inrush current, max current			3.6 / 3.4 / 3.3 (220/ 230/ 240 V) Max. 9				
	Power factor	Cooling	%	90				
		Heating		89				
	EER	Cooling		3.52				
	COP	Heating		4.05				
		Heating (H2)		-				
Sound power level	Cooling		57		57			
	Heating		57		56			
Sound pressure level	Cooling	dB(A)	Hi: 45 Me: 34 Lo: 23		47			
	Heating		Hi: 43 Me: 34 Lo: 26		45			
Silent mode sound pressure level			-		-			
Exterior dimensions (Height x Width x Depth)			mm	267 x 783 x 210		540 x 645(+57) x 275		
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	7.0		26.5		
Compressor type & Quantity				-		RM-C5077SBE7(Rotary type) x 1		
Compressor motor (Starting method)			kW	-		0.75 (Inverter driven)		
Refrigerant oil (Amount, type)			ℓ	-		0.3 (DIAMOND FREEZE MB75)		
Refrigerant (Type, amount, pre-charge length)			kg	R32 0.550 in outdoor unit (Incl. the amount for the piping of 10m)				
Heat exchanger				Louver fins & inner grooved tubing		M fins & inner grooved tubing		
Refrigerant control				Capillary tubes + Electronic expansion valve				
Fan type & Quantity				Tangential fan × 1		Propeller fan × 1		
Fan motor (Starting method)			W	30 × 1 (Direct drive)		24 × 1 (Direct drive)		
Air flow	Cooling	m³/min	Hi: 10.0 Me: 7.3 Lo: 4.2		23.7			
	Heating		Hi: 9.5 Me: 7.3 Lo: 5.2		19.7			
Available external static pressure			Pa	0		0		
Outside air intake				Not possible		-		
Air filter, Quality / Quantity				Polypropylene net (Washable)		-		
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				
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: ϕ 6.35 (1/4")		Gas line: ϕ 9.52 (3/8")		
	Connecting method			Flare connection		Flare connection		
	Attached length of piping		m	Liquid line : 0.46 / Gas line : 0.39		-		
	Insulation for piping			Necessary (Both sides), independent				
	Refrigerant line (one way) length		m	Max.15				
	Vertical height diff. between O.U. and I.U.		m	Max.10 (Outdoor unit is higher) / Max.10 (Outdoor unit is lower)				
Drain hose				Hose connectable (VP16)		Hole ϕ 20 x 2 pcs		
Drain pump, max lift height			mm	-		-		
Recommended breaker size			A	16				
L.R.A. (Locked rotor ampere)			A	3.6 / 3.4 / 3.3 (220/ 230/ 240 V)				
Interconnecting wires		Size x Core number		1.5mm² × 4 cores (Including earth cable) / Terminal block (Screw fixing type)				
IP number				IPX0		IPX4		
Standard accessories				Mounting kit				
Option parts				-				
Notes (1) The data are measured at the following conditions.				The pipe length is 5m.				
Operation	Item	Indoor air temperature		Outdoor air temperature		Standards		
		DB	WB	DB	WB			
	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.								

Model SRK35ZSP-W

Model			SRK35ZSP-W			
Item			Indoor unit	SRK35ZSP-W	Outdoor unit	SRC35ZSP-W
Power source			1 Phase, 220 - 240V, 50Hz			
Operation data	Nominal cooling capacity (range)		kW	3.2 (0.9 (Min.) - 3.7 (Max.))		
	Nominal heating capacity (range)		kW	3.6 (1.0 (Min.) - 4.6 (Max.))		
	Heating capacity (H2)		kW	-		
	Power consumption	Cooling	kW	0.910 (0.20 - 1.32)		
		Heating		0.930 (0.20 - 1.43)		
		Heating (H2)		-		
	Max power consumption			1.65		
	Running current	Cooling	A	4.4 / 4.3 / 4.1 (220/ 230/ 240 V)		
		Heating		4.5 / 4.3 / 4.2 (220/ 230/ 240 V)		
	Inrush current, max current			4.5 / 4.3 / 4.2 (220/ 230/ 240 V) Max. 9		
	Power factor	Cooling	%	93		
		Heating		93		
	EER	Cooling		3.52		
	COP	Heating		3.87		
		Heating (H2)		-		
Sound power level	Cooling	dB(A)	58		59	
	Heating		58		60	
Sound pressure level	Cooling		Hi: 45 Me: 36 Lo: 23	48		
	Heating		Hi: 44 Me: 36 Lo: 28	48		
Silent mode sound pressure level			-		-	
Exterior dimensions (Height x Width x Depth)			mm	267 x 783 x 210		540 x 645(+57) x 275
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	7.0		28.5
Compressor type & Quantity				-		RM-C5077SBE7(Rotary type) x 1
Compressor motor (Starting method)			kW	-		0.75 (Inverter driven)
Refrigerant oil (Amount, type)			ℓ	-		0.3 (DIAMOND FREEZE MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 0.68 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	30 x1 (Direct drive)		24 x1 (Direct drive)
Air flow	Cooling	m³/min	Hi: 9.5 Me: 6.8 Lo: 4.2		22.8	
	Heating		Hi: 9.6 Me: 7.4 Lo: 5.5		22.0	
Available external static pressure			Pa	0		0
Outside air intake				Not possible		-
Air filter, Quality / Quantity				Polypropylene net (Washable)		-
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		
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: ϕ 6.35 (1/4")		Gas line: ϕ 9.52 (3/8")
	Connecting method			Flare connection		Flare connection
	Attached length of piping		m	Liquid line : 0.46 / Gas line : 0.39		-
	Insulation for piping			Necessary (Both sides), independent		
	Refrigerant line (one way) length		m	Max.15		
	Vertical height diff. between O.U. and I.U.		m	Max.10 (Outdoor unit is higher) / Max.10 (Outdoor unit is lower)		
Drain hose				Hose connectable (VP16)		Hole ϕ 20 x 2 pcs
Drain pump, max lift height			mm	-		-
Recommended breaker size			A	16		
L.R.A. (Locked rotor ampere)			A	4.5 / 4.3 / 4.2 (220/ 230/ 240 V)		
Interconnecting wires		Size x Core number		1.5mm² × 4 cores (Including earth cable) / Terminal block (Screw fixing type)		
IP number				IPX0		IPX4
Standard accessories				Mounting kit		
Option parts				-		
Notes (1) The data are measured at the following conditions.				The pipe length is 5m.		
Operation	Item	Indoor air temperature		Outdoor air temperature		Standards
		DB	WB	DB	WB	
	Cooling	27°C	19°C	35°C	24°C	
	Heating	20°C	-	7°C	6°C	
	Heating (H2)	20°C	-	2°C	1°C	
(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						

Model SRK45ZSP-W

Model			SRK45ZSP-W			
Item			Indoor unit	SRK45ZSP-W	Outdoor unit	SRC45ZSP-W
Power source			1 Phase, 220 - 240V, 50Hz			
Operation data	Nominal cooling capacity (range)		kW 4.5 (1.3 (Min.) - 4.8 (Max.))			
	Nominal heating capacity (range)		kW 5.0 (1.2 (Min.) - 5.8 (Max.))			
	Heating capacity (H2)		kW -			
	Power consumption	Cooling	1.350 (0.29 - 1.71)			
		Heating	1.360 (0.27 - 1.84)			
		Heating (H2)	-			
	Max power consumption		2.68			
	Running current	Cooling	6.3 / 6.1 / 5.8 (220/ 230/ 240 V)			
		Heating	6.4 / 6.1 / 5.8 (220/ 230/ 240 V)			
	Inrush current, max current		6.4 / 6.1 / 5.8 (220/ 230/ 240 V) Max. 14.5			
	Power factor	Cooling	%			
		Heating	97			
	EER	Cooling	3.33			
		Heating	3.68			
	COP	Heating (H2)	-			
Sound power level		Cooling	56		63	
	Heating	62		64		
Sound pressure level	Cooling	Hi: 44 Me: 39 Lo: 24		51		
	Heating	Hi: 48 Me: 41 Lo: 30		51		
Silent mode sound pressure level		-		-		
Exterior dimensions (Height x Width x Depth)			mm 267 x 783 x 210		595 x 780(+62) 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 7.5		36.0	
Compressor type & Quantity			-		9RS102XDA21(Rotary type) x 1	
Compressor motor (Starting method)			kW -		1.50 (Inverter driven)	
Refrigerant oil (Amount, type)			ℓ -		0.32 (FW50S)	
Refrigerant (Type, amount, pre-charge length)			kg R32 1.10 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 30 × 1 (Direct drive)		24 × 1 (Direct drive)	
Air flow	Cooling	m³/min	Hi: 9.0 Me: 7.2 Lo: 3.8		35.6	
	Heating		Hi: 12.0 Me: 9.2 Lo: 6.2		33.4	
Available external static pressure			Pa 0		0	
Outside air intake			Not possible		-	
Air filter, Quality / Quantity			Polypropylene net (Washable)		-	
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			
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: ϕ 6.35 (1/4") Gas line: ϕ 12.7 (1/2")			
	Connecting method		Flare connection		Flare connection	
	Attached length of piping		m Liquid line : 0.46 / Gas line : 0.39		-	
	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 ϕ 20 x 2 pcs	
Drain pump, max lift height			mm -		-	
Recommended breaker size			A 20			
L.R.A. (Locked rotor ampere)			A 6.4 / 6.1 / 5.8 (220/ 230/ 240 V)			
Interconnecting wires		Size x Core number	1.5mm² × 4 cores (Including earth cable) / Terminal block (Screw fixing type)			
IP number			IPX0		IPX4	
Standard accessories			Mounting kit			
Option parts			-			
Notes (1) The data are measured at the following conditions.			The pipe length is 5m.			
Operation	Item	Indoor air temperature		Outdoor air temperature		Standards
		DB	WB	DB	WB	
	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.						

Weight list (Package)

【Indoor unit & outdoor unit】

Unit : kg

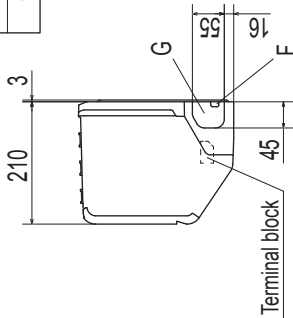
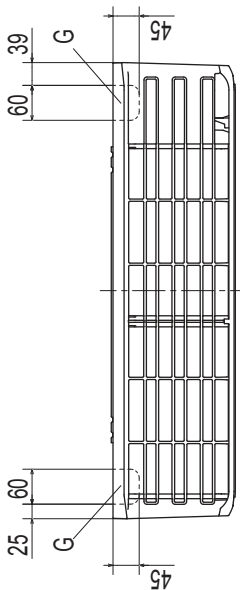
Material Model		Gross weight	Packing parts weight	Paper	Foam poly-styrene	Plastic	Steel	Aluminium	Wood	Glass	Others
Indoor	SRK25ZSP-W	9.0	0.94	0.64	0.24	0.06	0.00	0.00	0.00	0.00	0.00
	SRK35ZSP-W	9.0	0.94	0.64	0.24	0.06	0.00	0.00	0.00	0.00	0.00
	SRK45ZSP-W	9.5	0.94	0.64	0.24	0.06	0.00	0.00	0.00	0.00	0.00
Outdoor	SRC25ZSP-W	28.0	1.64	1.36	0.24	0.04	0.00	0.00	0.00	0.00	0.00
	SRC35ZSP-W	30.0	1.64	1.36	0.24	0.04	0.00	0.00	0.00	0.00	0.00
	SRC45ZSP-W	38.0	2.13	1.78	0.27	0.08	0.00	0.00	0.00	0.00	0.00

2. EXTERIOR DIMENSIONS

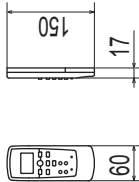
(1) Indoor units

Models SRK25ZSP-W, 35ZSP-W, 45ZSP-W

Symbol	Content	
A	Gas piping	SRK25,35 φ 9.52 (3 / 8") (Flare)
		SRK45 φ 12.7 (1 / 2") (Flare)
B	Liquid piping	φ 6.35 (1 / 4") (Flare)
C	Hole on wall for right rear piping	(φ 65)
D	Hole on wall for left rear piping	(φ 65)
E	Drain hose	VP16
F	Outlet for wiring	
G	Outlet for piping (on both side)	



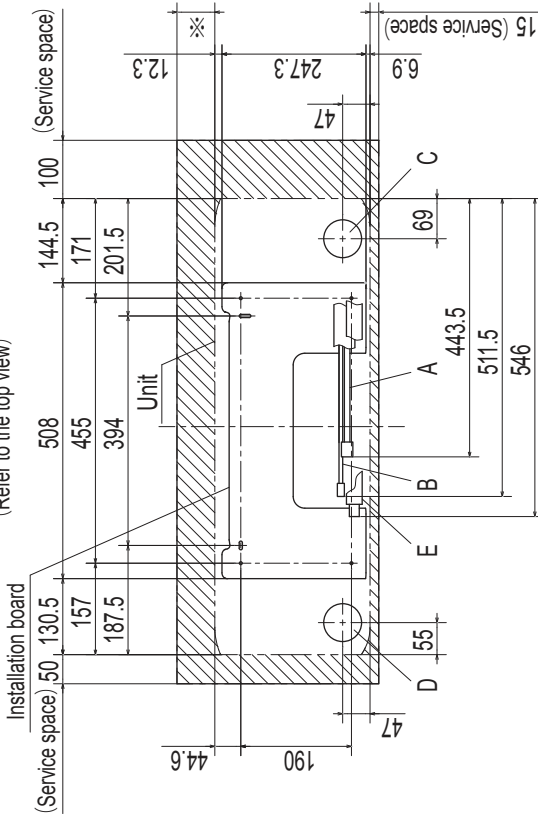
Wireless remote control



Note (1) The model name label is attached on the underside of the indoor unit.

Unit:mm

※	Service space	65
	Recommendation	80



Space for installation and service when viewing from the front

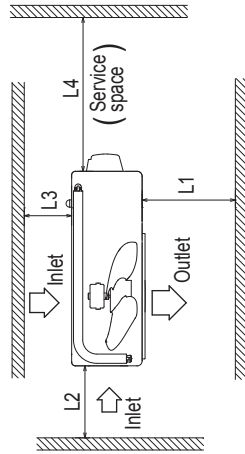
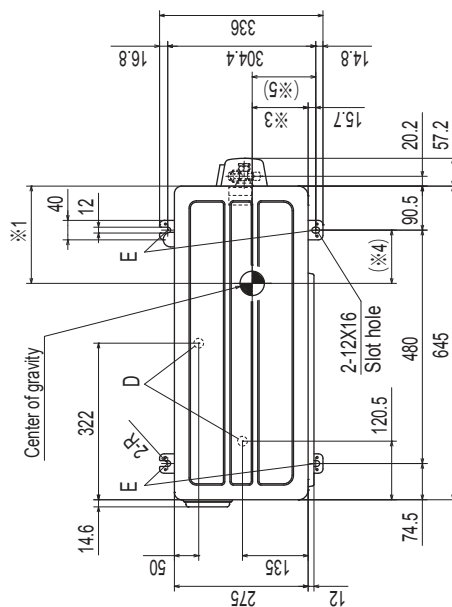
(2) Outdoor units

Models SRC25ZSP-W, 35ZSP-W

Symbol	Content
A	Service valve connection (gas side)
B	Service valve connection (liquid side)
C	Pipe / cable draw-out hole
D	Drain discharge hole
E	Anchor bolt hole

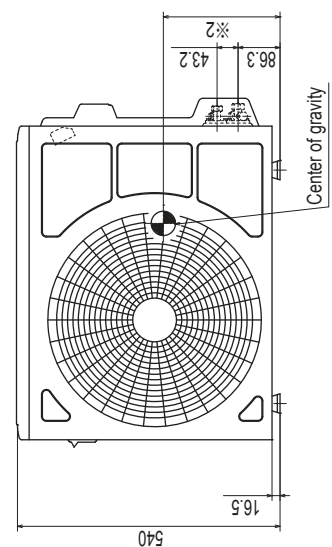
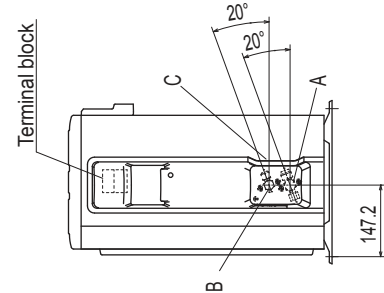
Notes

- (1) The unit must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts.
An anchor bolt must not protrude more than 15mm.
- (3) If the unit is installed in the location where there is a possibility of strong winds, place the unit such that the direction of air from the outlet gets perpendicular to the wind direction.
- (4) Leave 200mm or more space above the unit.
- (5) The wall height on the outlet side should be 1200mm or less.
- (6) The model name label is attached on the lower right corner of the front panel.



	Installation space (mm)
L1	280 or more
L2	100 or more
L3	80 or more
L4	250 or more

Dimensions Model	※1	※2	※3	※4	※5
SRC25ZSP-W	200	240	115	109.5	130.7
SRC35ZSP-W	215	240	140	124.5	155.7



Unit:mm

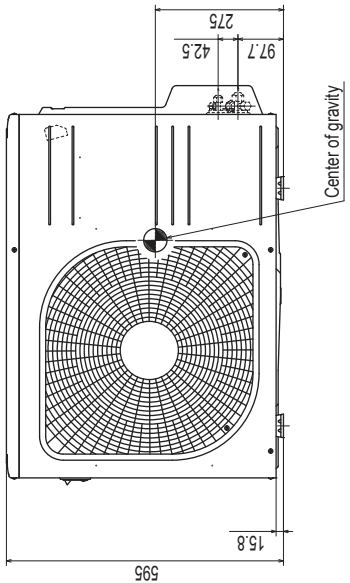
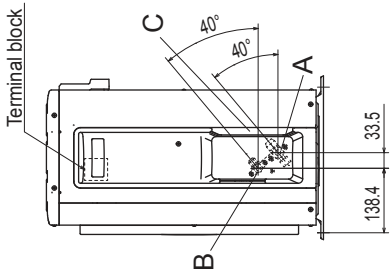
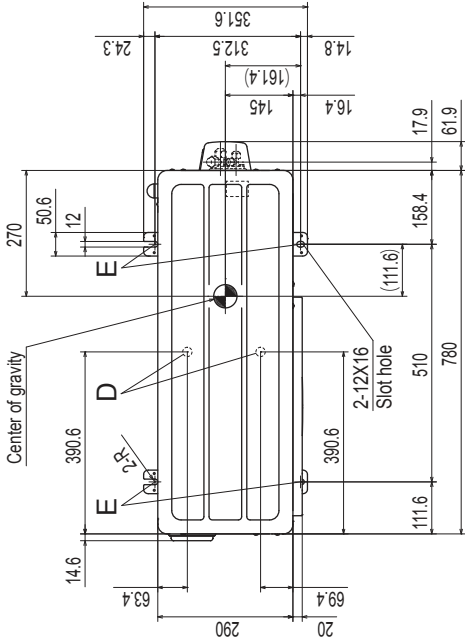
RCW000Z007

Model SRC45ZSP-W

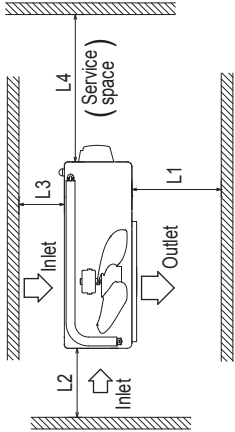
Notes

- (1) The unit must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts.
An anchor bolt must not protrude more than 15mm.
- (3) If the unit is installed in the location where there is a possibility of strong winds, place the unit such that the direction of air from the outlet gets perpendicular to the wind direction.
- (4) Leave 200mm or more space above the unit.
- (5) The wall height on the outlet side should be 1200mm or less.
- (6) The model name label is attached on the right side of the unit.

Symbol	Content
A	Service valve connection (gas side)
B	Service valve connection (liquid side)
C	Pipe / cable draw-out hole
D	Drain discharge hole
E	Anchor bolt hole



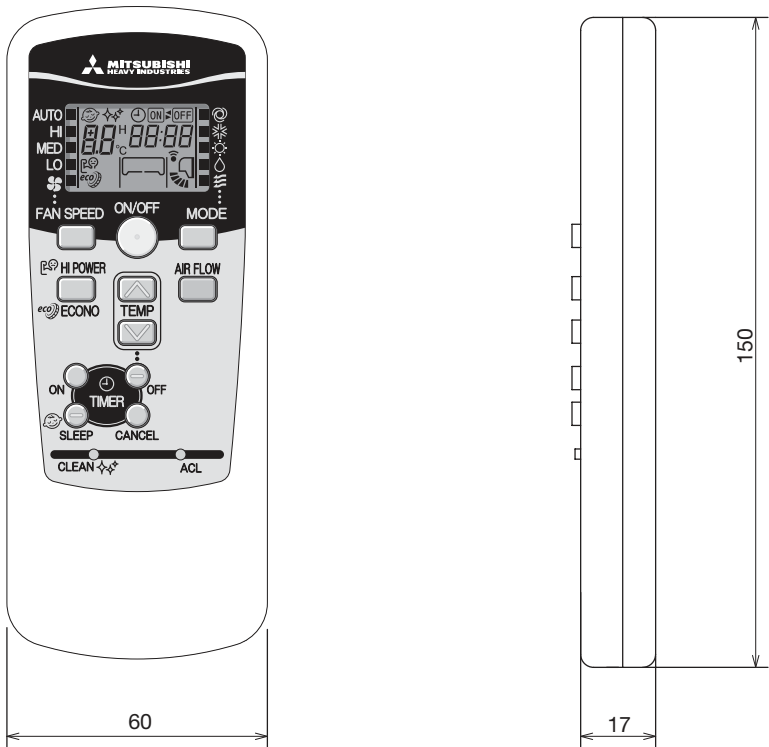
Installation space (mm)	
L1	280 or more
L2	100 or more
L3	80 or more
L4	250 or more



Unit:mm

(3) Wireless remote control

Unit: mm

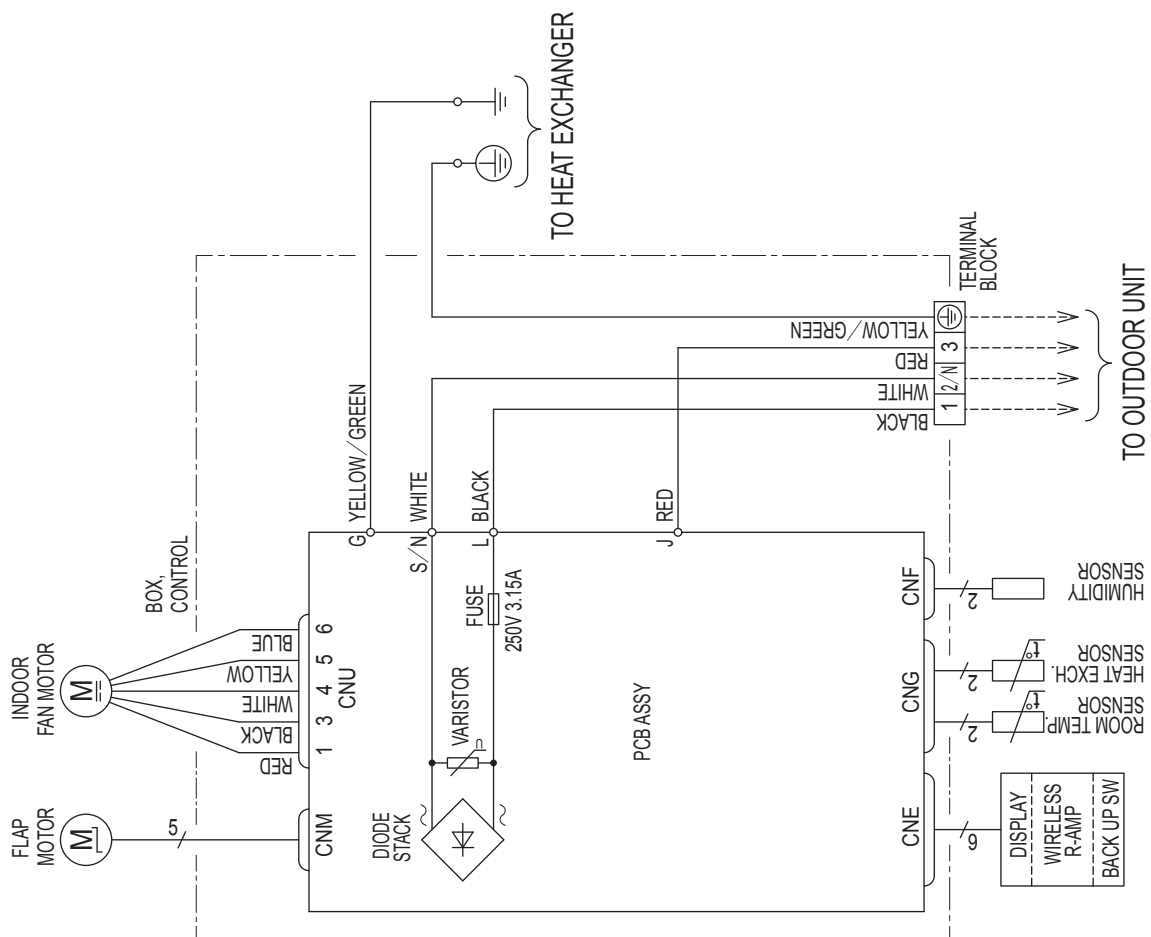


3. ELECTRICAL WIRING

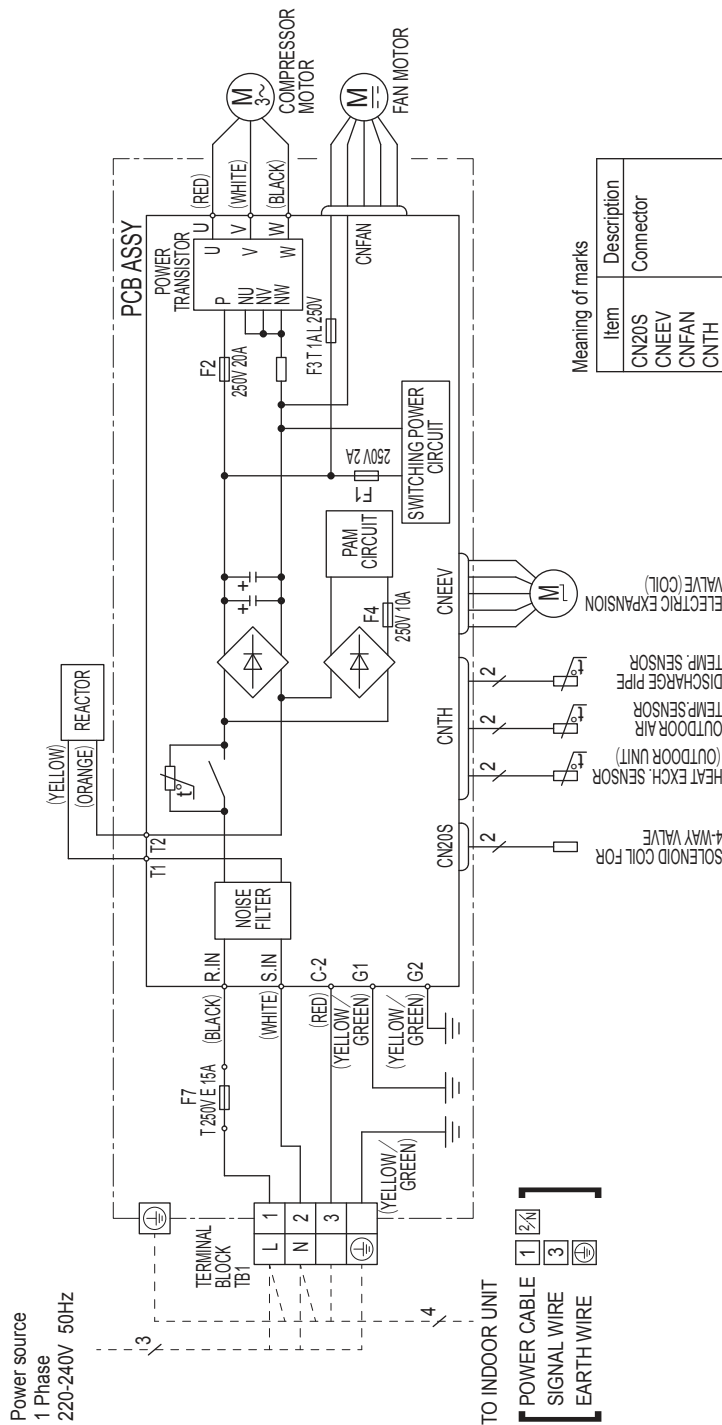
(1) Indoor units

Models SRK25ZSP-W, 35ZSP-W, 45ZSP-W

Meaning of marks	
Item	Description
CNE	Connector
CNF	
CNG	
CNM	
CNU	



(2) Outdoor units
Models SRC25ZSP-W, 35ZSP-W

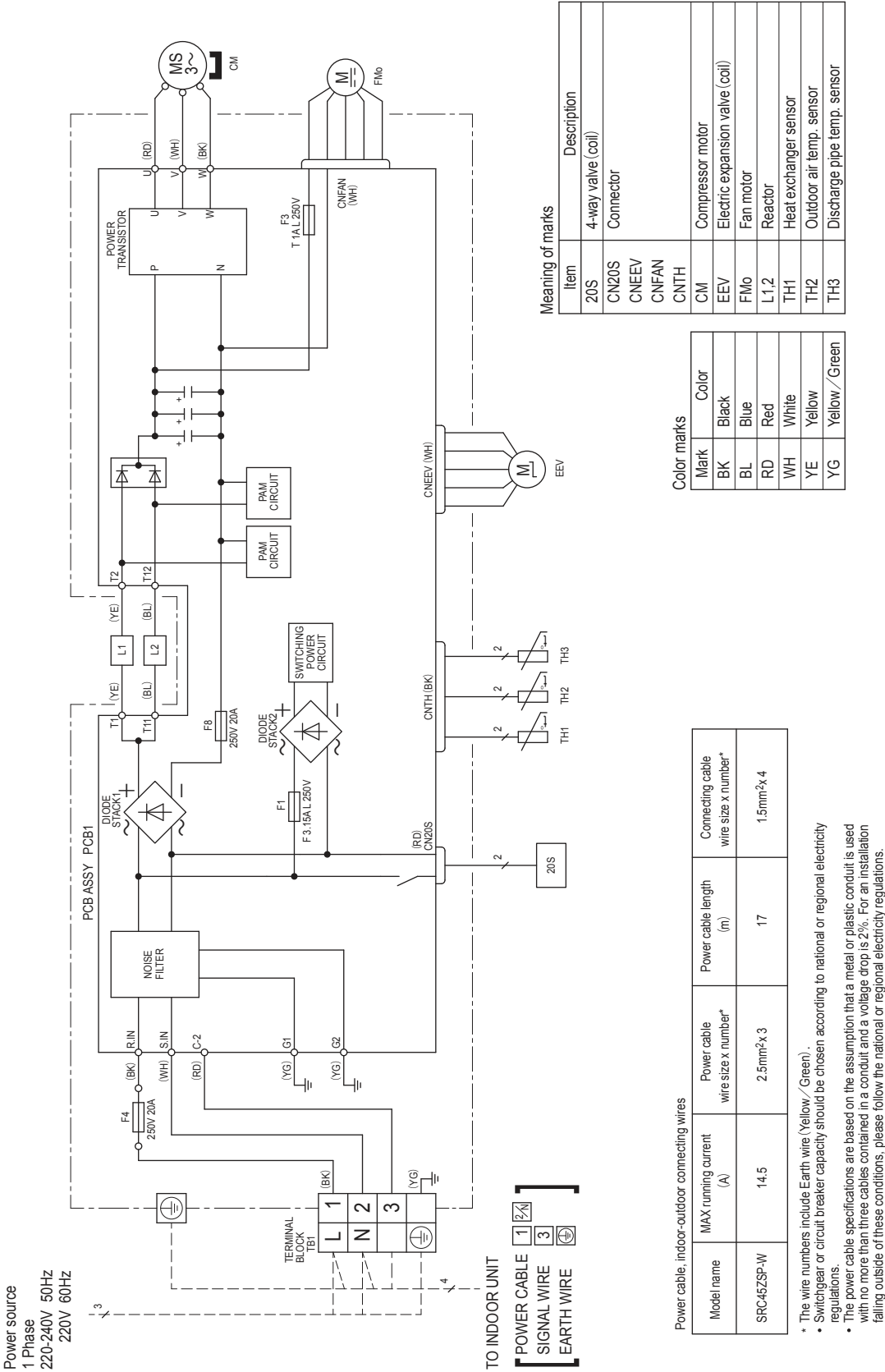


Power cable, indoor-outdoor connecting wires

Model	MAX running current (A)	Power cable wire size x number*	Power cable length (m)	Connecting cable wire size x number*
25,35	9	2.5mm ² x 3	28	1.5mm ² 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.

Model SRC45ZSP-W



4. NOISE LEVEL

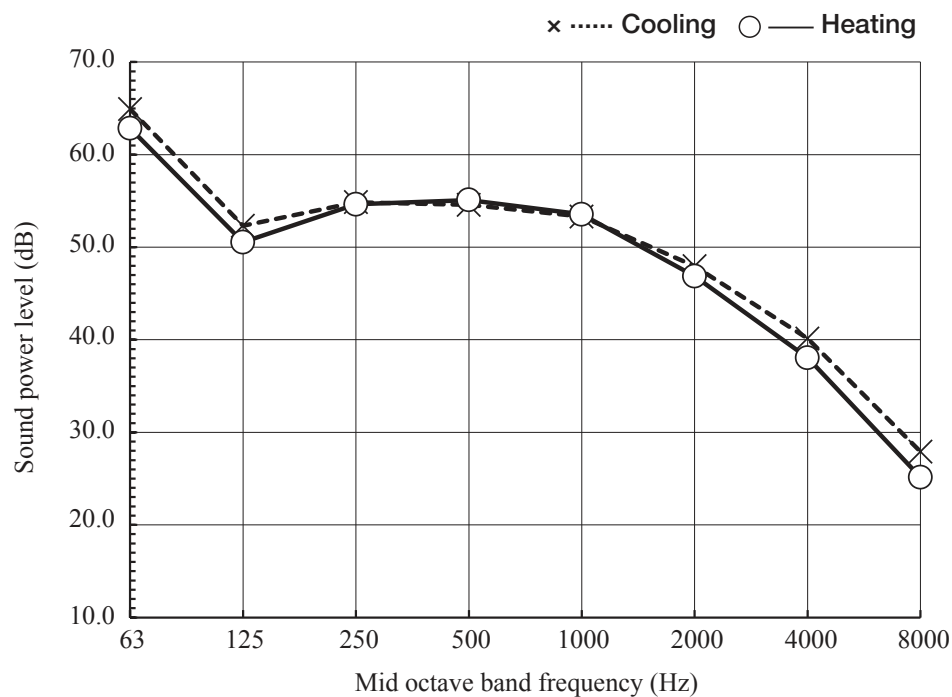
(1) Sound power level

Model SRK25ZSP-W

(Indoor unit)

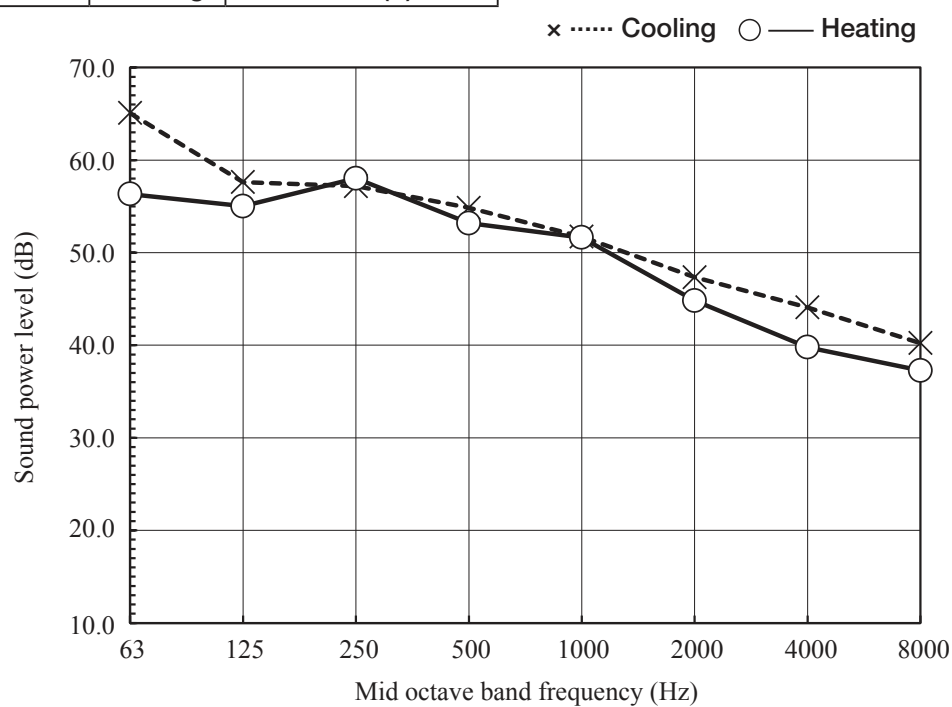
Model	SRK25ZSP-W	
Noise level	Cooling	57 dB(A)
	Heating	57 dB(A)

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



(Outdoor unit)

Model	SRC25ZSP-W	
Noise level	Cooling	57 dB(A)
	Heating	56 dB(A)

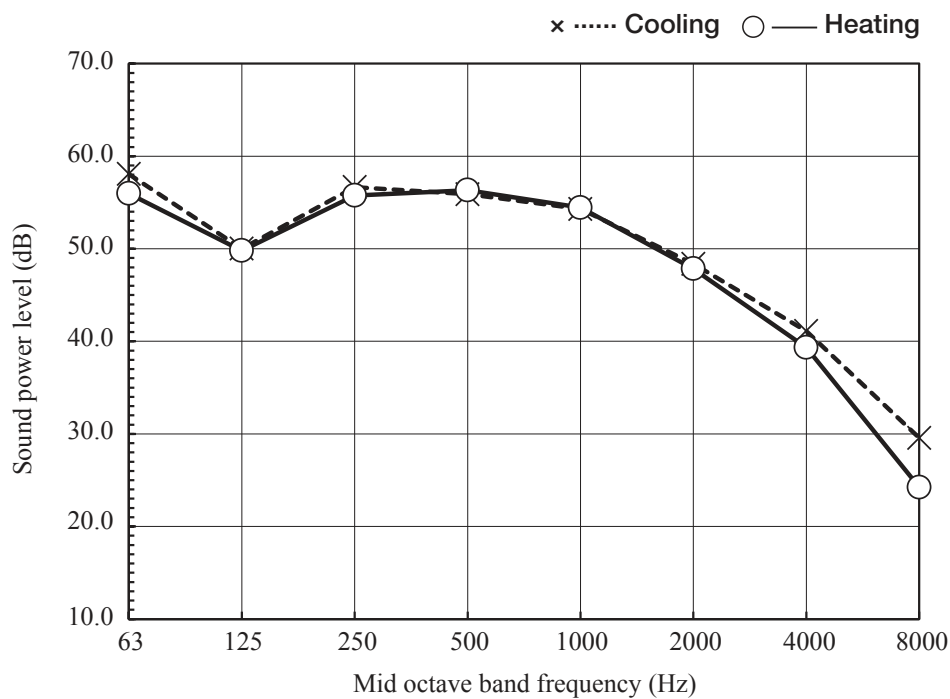


Model SRK35ZSP-W

(Indoor unit)

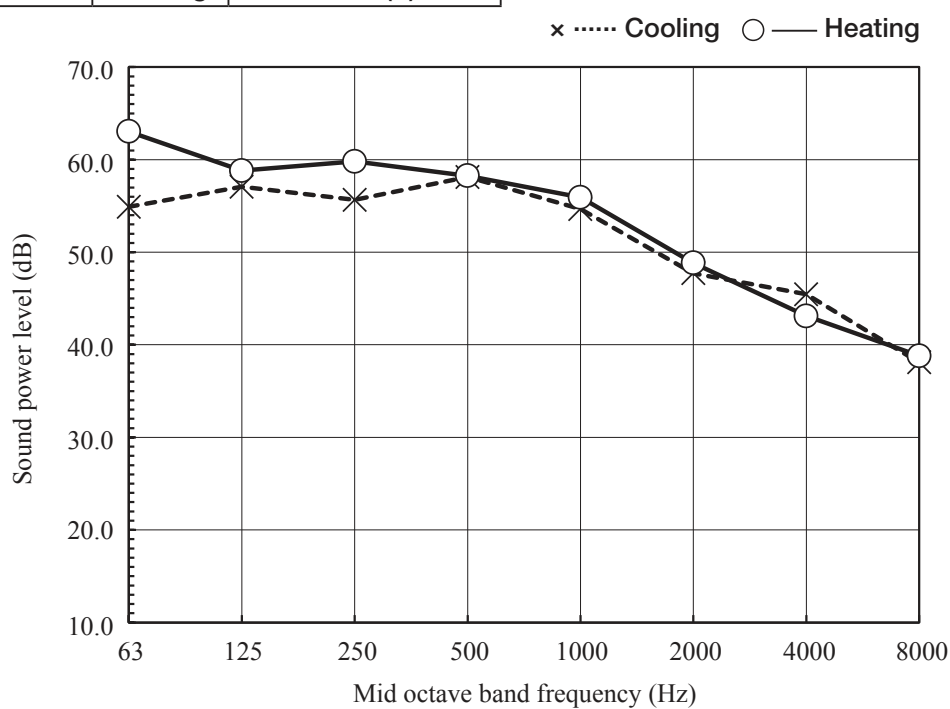
Model	SRK35ZSP-W	
Noise level	Cooling	58 dB(A)
	Heating	58 dB(A)

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



(Outdoor unit)

Model	SRC35ZSP-W	
Noise level	Cooling	59 dB(A)
	Heating	60 dB(A)

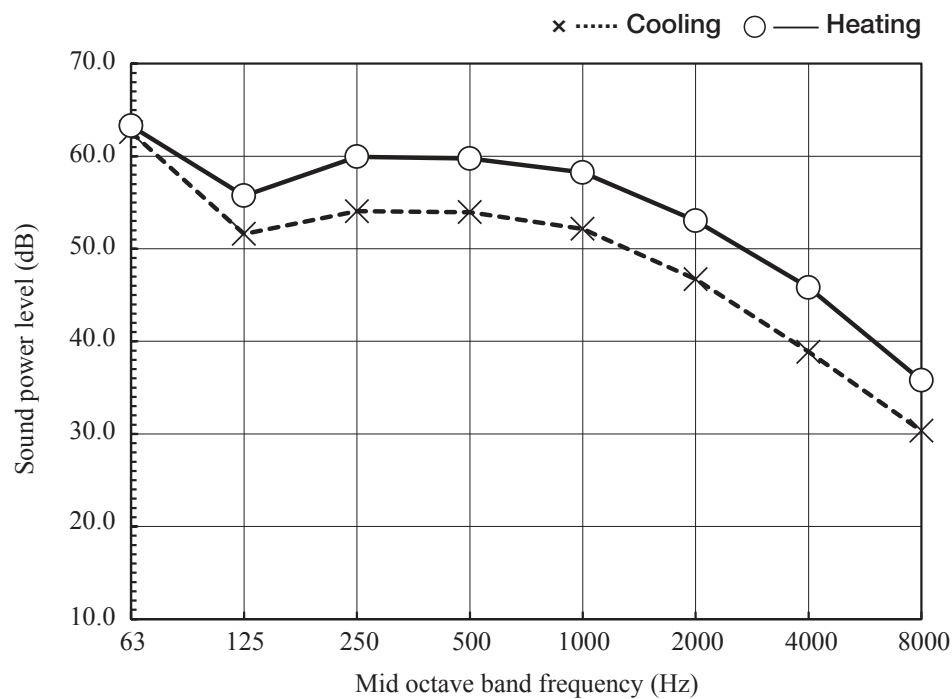


Model SRK45ZSP-W

(Indoor unit)

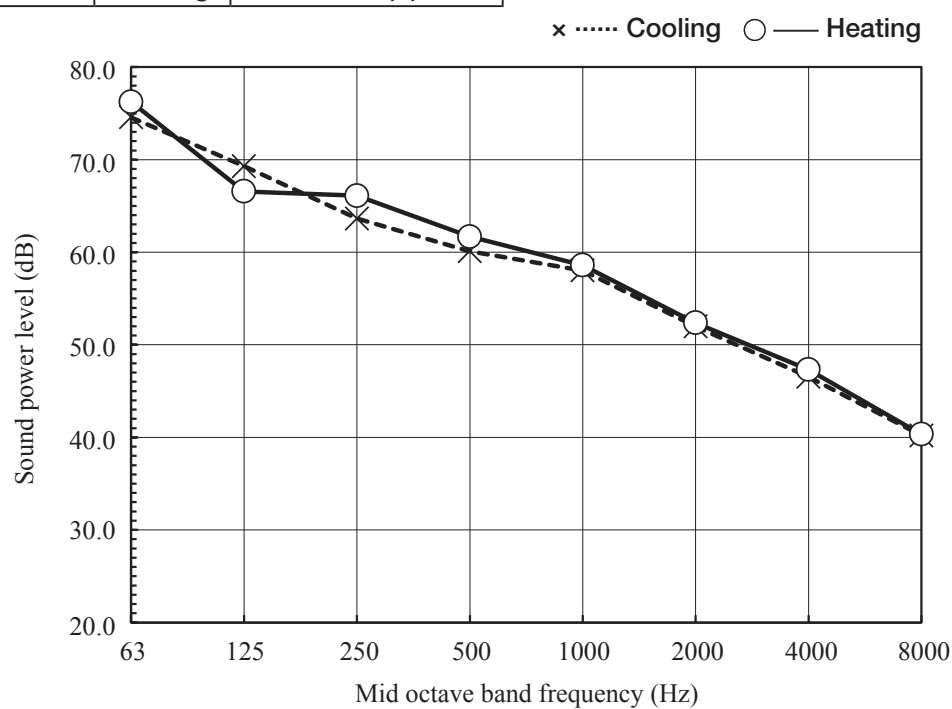
Model	SRK45ZSP-W	
Noise level	Cooling	56 dB(A)
	Heating	62 dB(A)

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



(Outdoor unit)

Model	SRC45ZSP-W	
Noise level	Cooling	63 dB(A)
	Heating	64 dB(A)



(2) Sound pressure level

(a) Rated capacity value

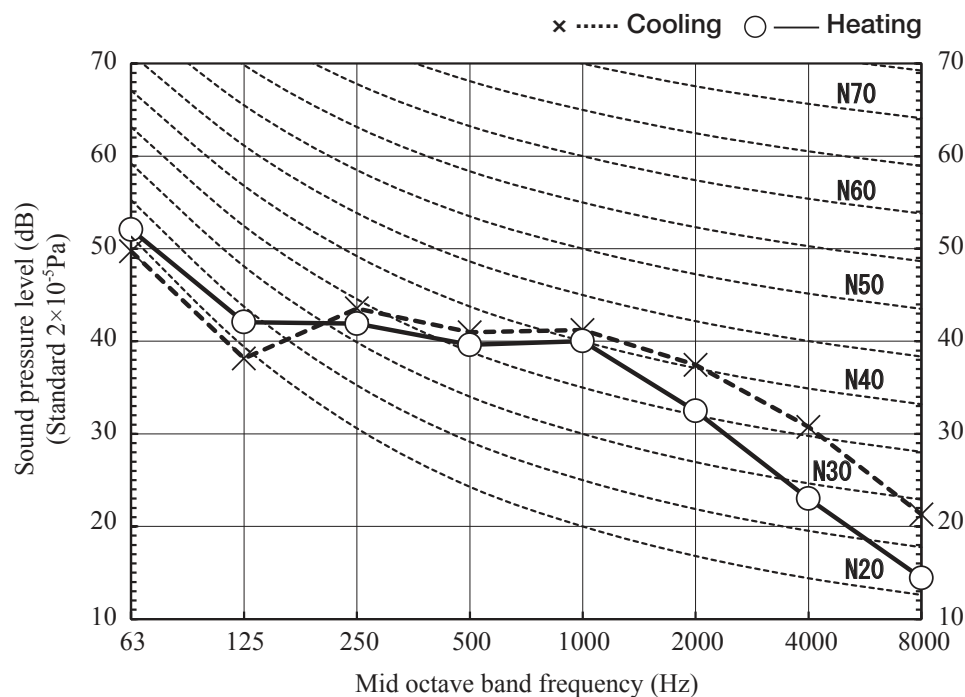
Model SRK25ZSP-W

(Indoor unit)

Model	SRK25ZSP-W	
Noise level	Cooling	45 dB(A)
	Heating	43 dB(A)

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

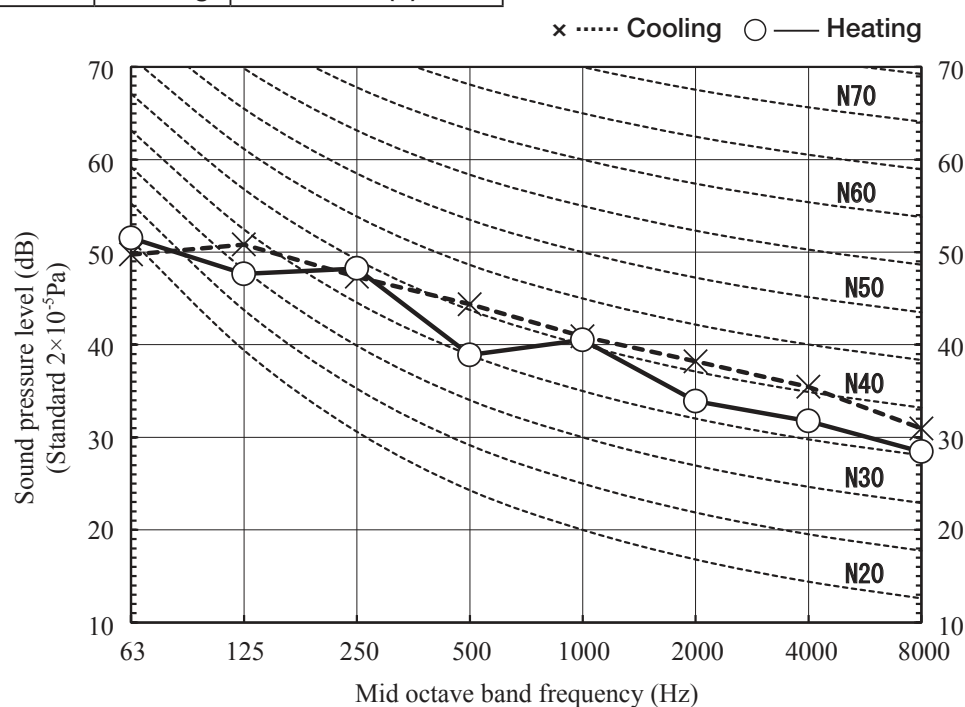
● Mike position



(Outdoor unit)

Model	SRC25ZSP-W	
Noise level	Cooling	47 dB(A)
	Heating	45 dB(A)

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



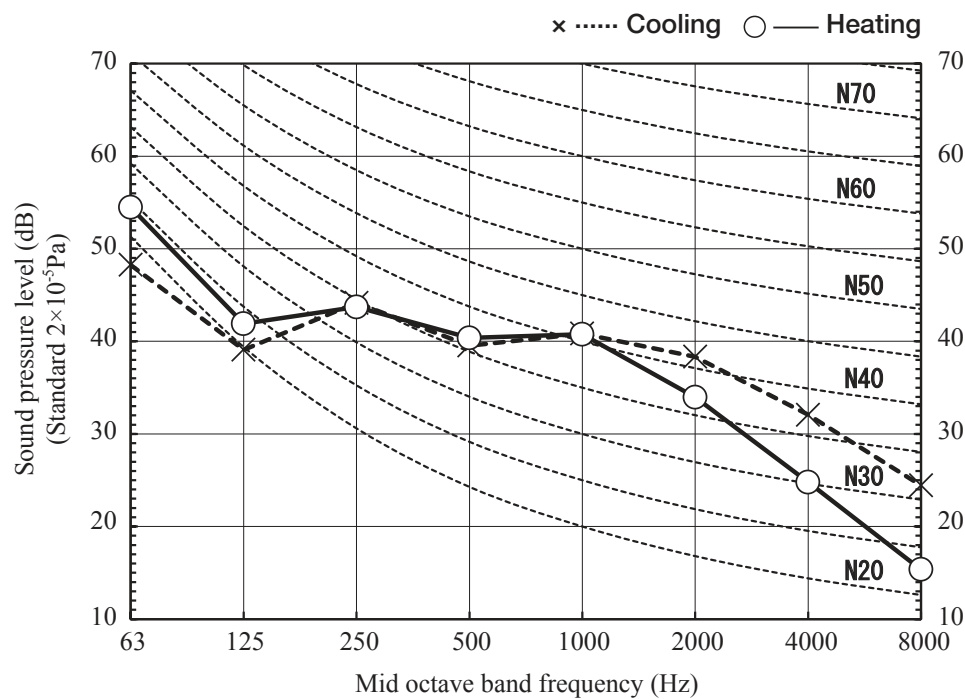
Model SRK35ZSP-W

(Indoor unit)

Model	SRK35ZSP-W	
Noise level	Cooling	45 dB(A)
	Heating	44 dB(A)

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

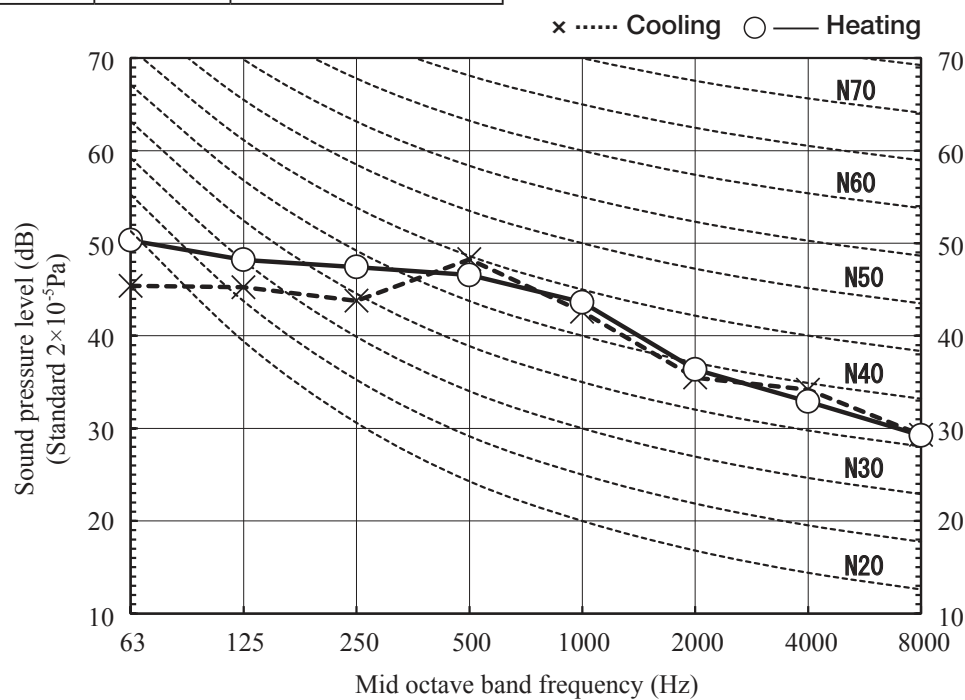
● Mike position



(Outdoor unit)

Model	SRC35ZSP-W	
Noise level	Cooling	48 dB(A)
	Heating	48 dB(A)

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



Model SRK45ZSP-W

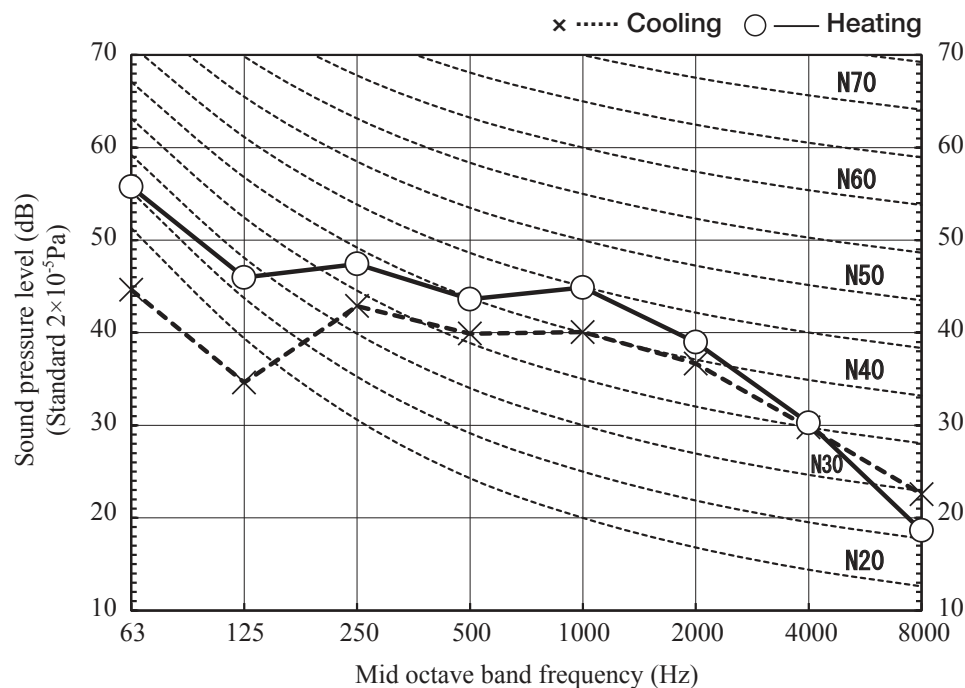
(Indoor unit)

Model	SRK45ZSP-W	
Noise level	Cooling	44 dB(A)
	Heating	48 dB(A)

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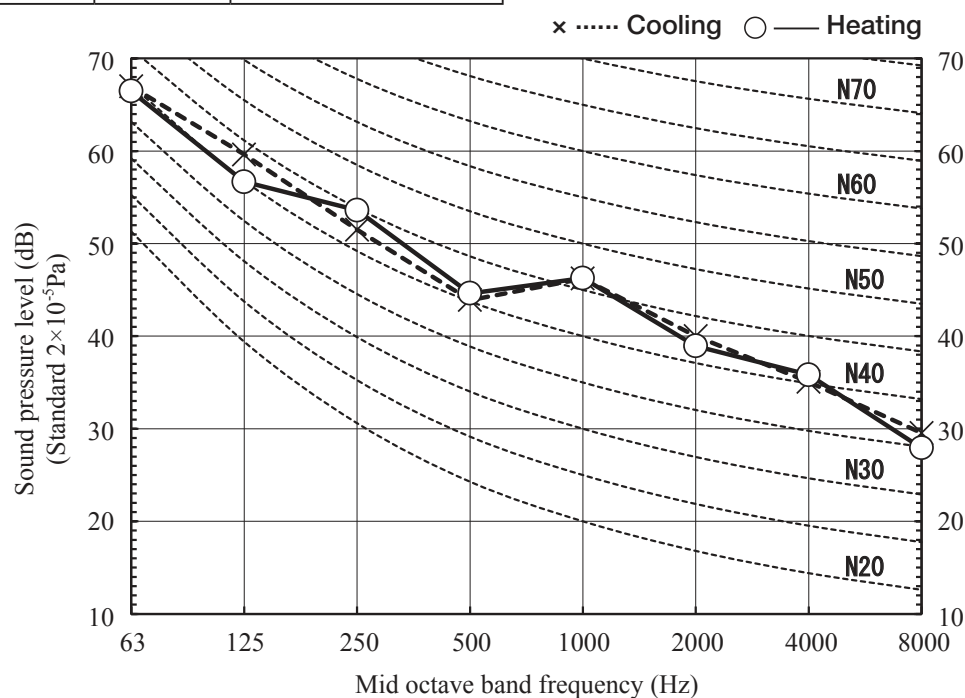
● Mike position



(Outdoor unit)

Model	SRC45ZSP-W	
Noise level	Cooling	51 dB(A)
	Heating	51 dB(A)

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



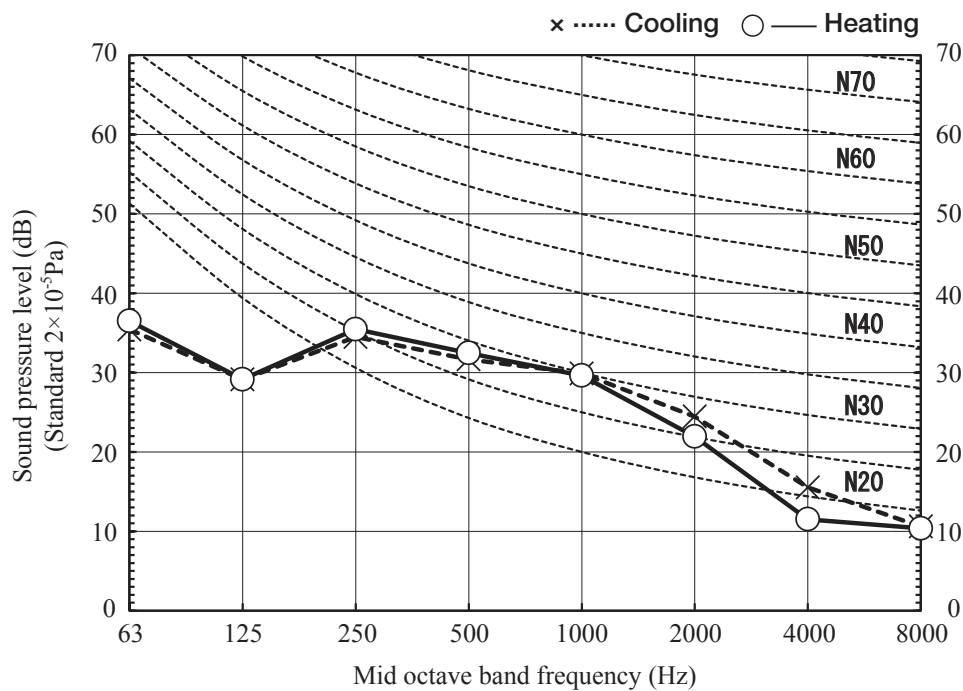
(b) Each fan speed mode

(Indoor unit)

Model	SRK25ZSP-W	
Noise level	Cooling	34 dB(A)
	Heating	34 dB(A)

Condition	ISO5151 T1/H1
MODE	Me

●Mike position

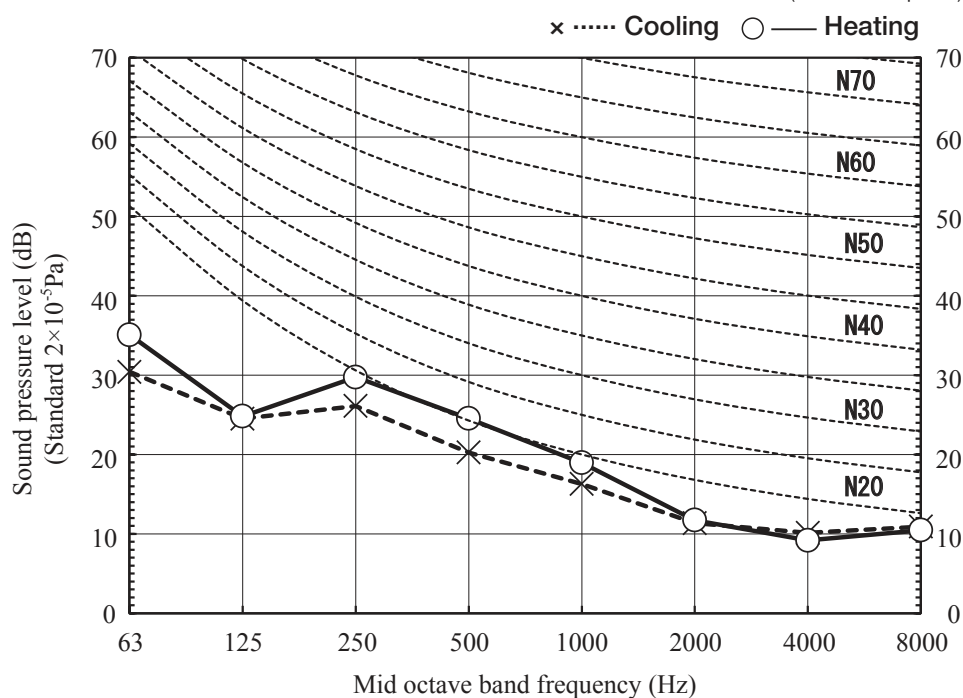


(Indoor unit)

Model	SRK25ZSP-W	
Noise level	Cooling	23 dB(A)
	Heating	26 dB(A)

MODE	Lo
------	----

●Mike position

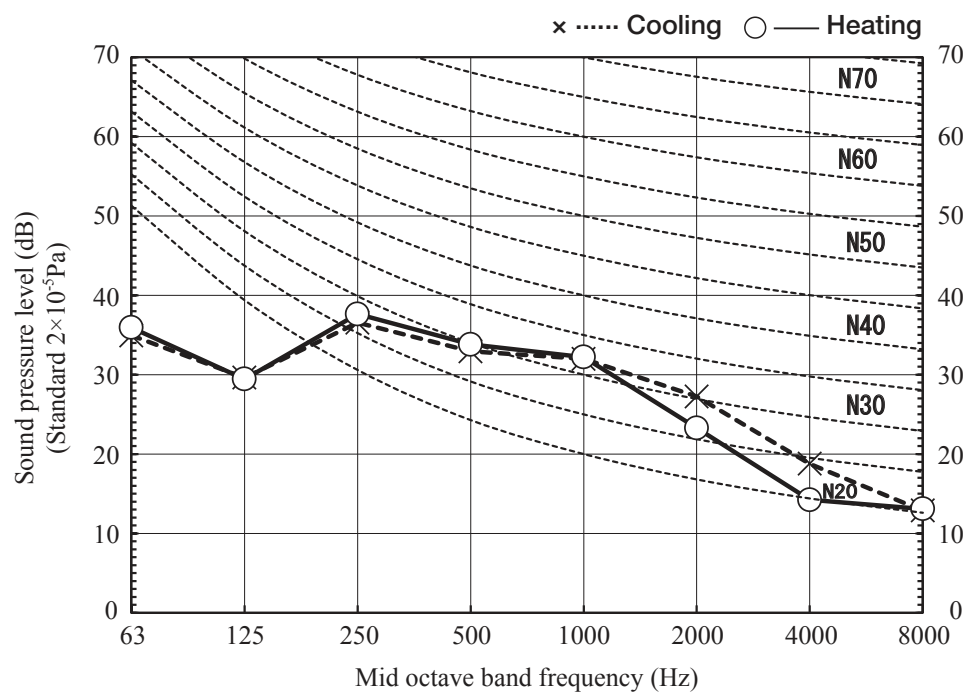


(Indoor unit)

Model	SRK35ZSP-W	
Noise level	Cooling	36 dB(A)
	Heating	36 dB(A)

Condition	ISO5151 T1/H1
MODE	Me

●Mike position

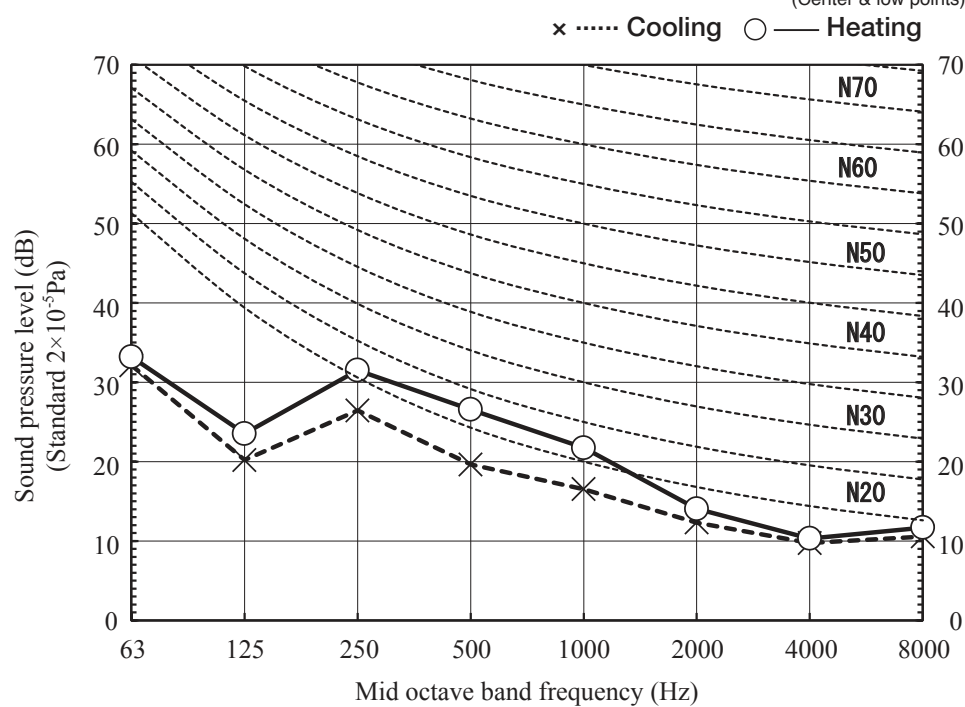


(Indoor unit)

Model	SRK35ZSP-W	
Noise level	Cooling	23 dB(A)
	Heating	28 dB(A)

MODE	Lo
------	----

●Mike position

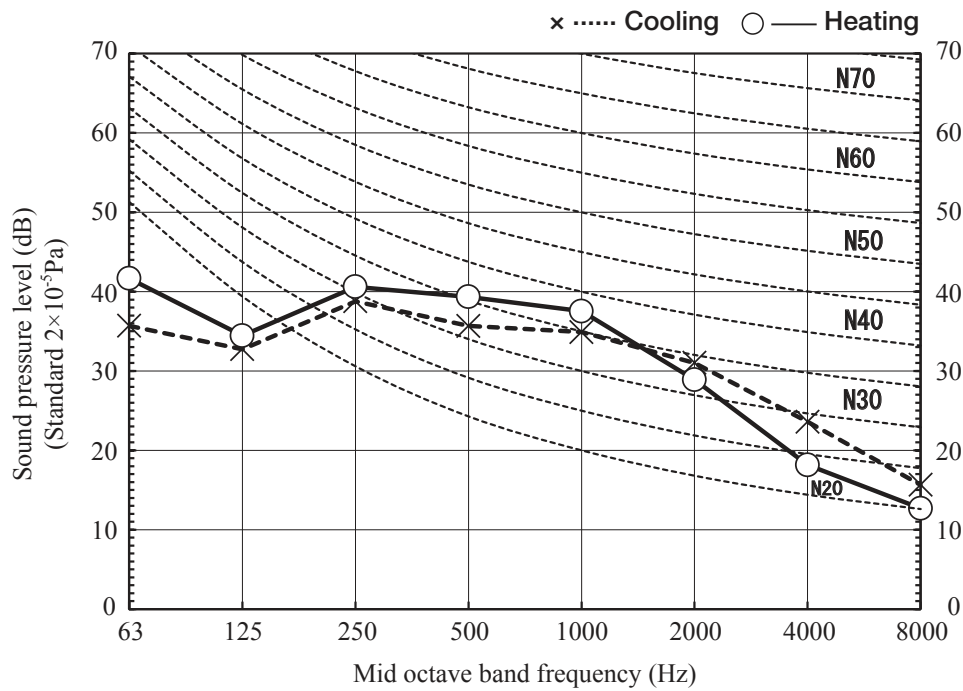


(Indoor unit)

Model	SRK45ZSP-W	
Noise level	Cooling	39 dB(A)
	Heating	41 dB(A)

Condition	ISO5151 T1/H1
MODE	Me

● Mike position

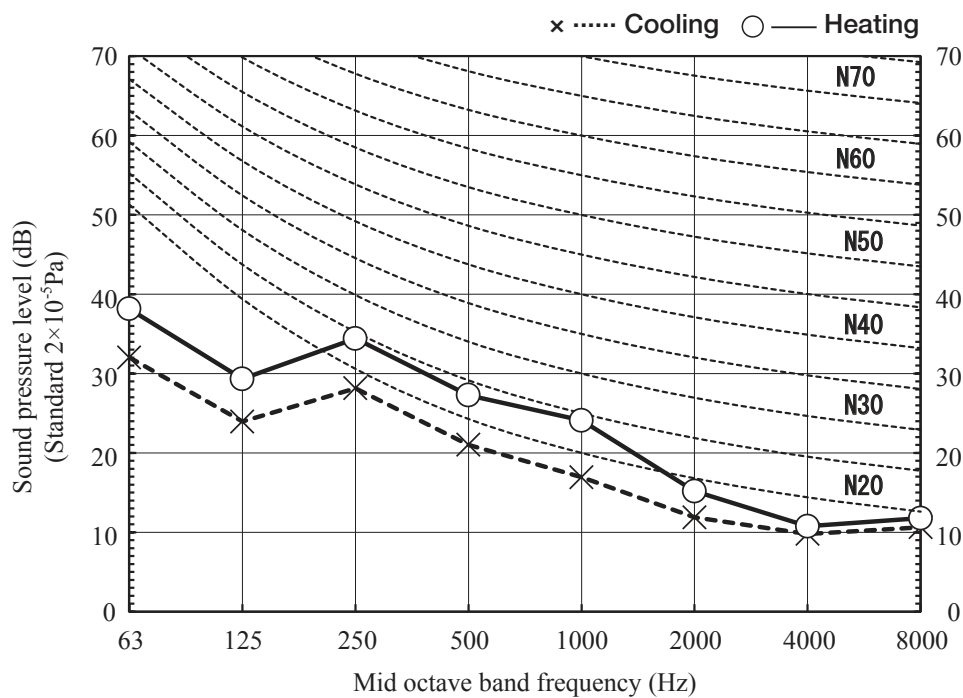


(Indoor unit)

Model	SRK45ZSP-W	
Noise level	Cooling	24 dB(A)
	Heating	30 dB(A)

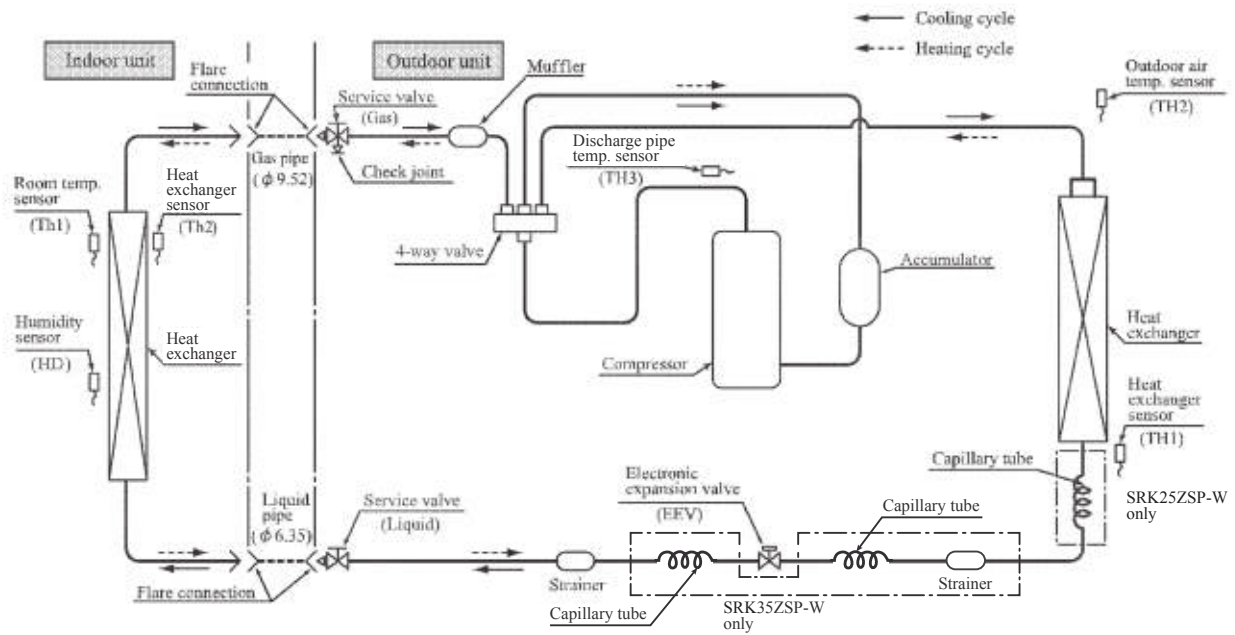
MODE	Lo
------	----

● Mike position

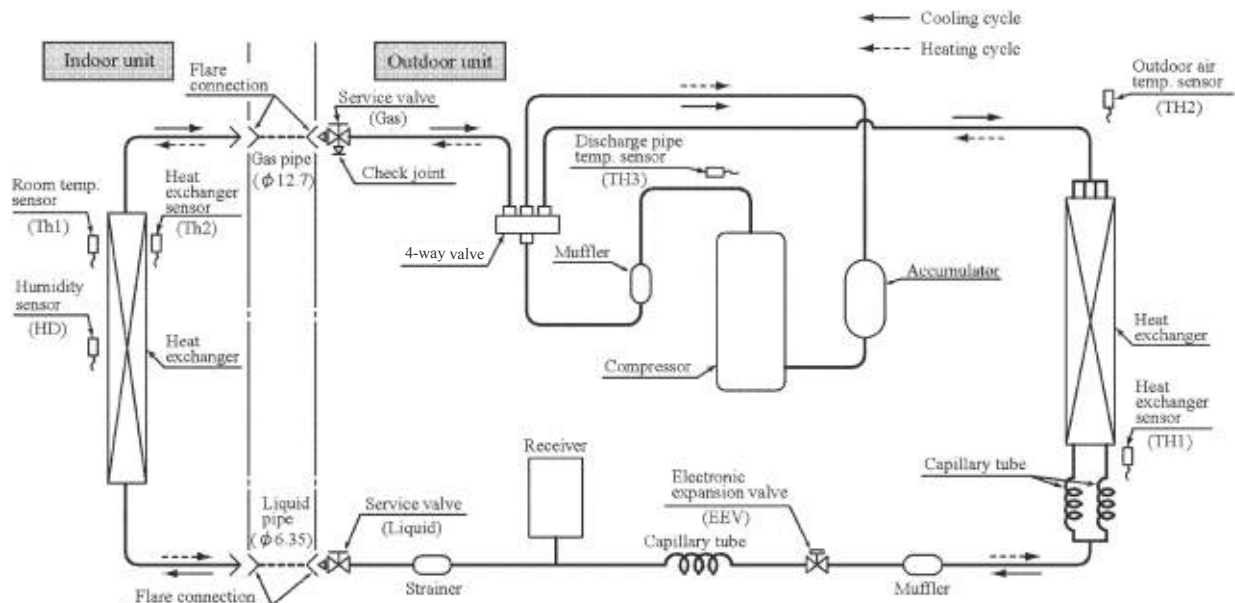


5. PIPING SYSTEM

Models SRK25ZSP-W, 35ZSP-W



Model SRK45ZSP-W



6. RANGE OF USAGE & LIMITATIONS

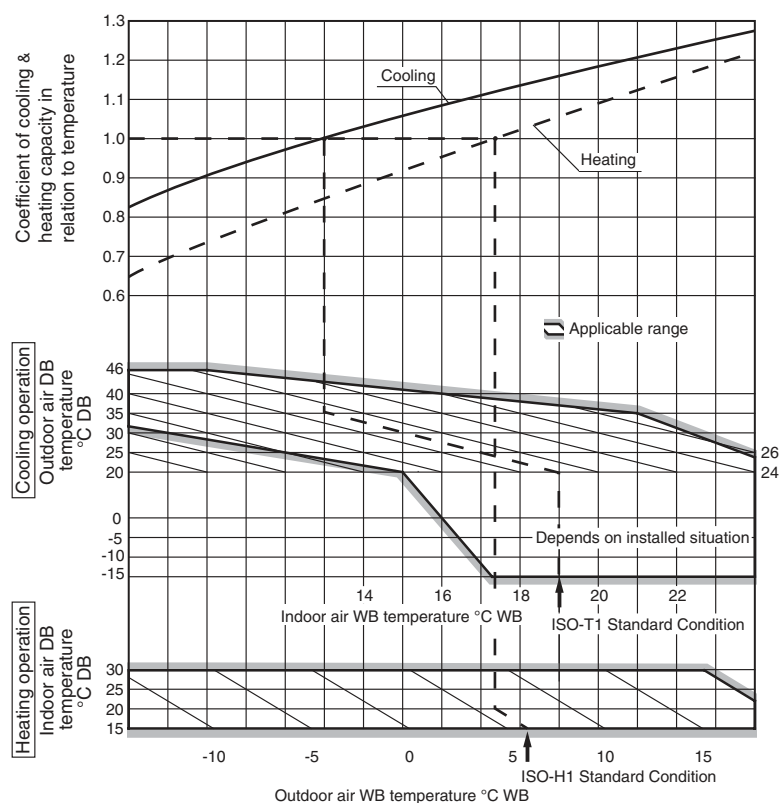
Item \ Model	SRK25ZSP-W, 35ZSP-W	SRK45ZSP-W
Indoor return air temperature (Upper, lower limits)	Cooling operation : Approximately 18 to 32°C DB Heating operation : Approximately 10 to 30°C DB (Refer to the selection chart)	
Outdoor air temperature (Upper, lower limits)	Cooling operation : Approximately -15 to 46°C DB Heating operation : Approximately -15 to 24°C DB (Refer to the selection chart)	
Refrigerant line (one way) length	Max. 15m	Max. 25m
Vertical height difference between outdoor unit and indoor unit	Max. 10m (Outdoor unit is higher) Max. 10m (Outdoor unit is lower)	Max. 15m (Outdoor unit is higher) Max. 15m (Outdoor unit is lower)
Power source voltage	Rating $\pm 10\%$	
Voltage at starting	Min. 85% of rating	
Frequency of ON-OFF cycle	Max. 4 times/h (Inching prevention 10 minutes)	Max. 7 times/h (Inching prevention 5 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	-15	-10	-9	-7	-5	-3	-1	1	3	5 or more
Adjustment coefficient	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 SRK35ZSP-W with the piping length of 15m, indoor wet-bulb temperature at 19.0°C and outdoor dry-bulb temperature 35°C is

$$\text{Net cooling capacity} = \underset{\substack{\uparrow \\ \text{SRK35ZSP-W}}}{3.2} \times \underset{\substack{\uparrow \\ \text{Length 15m}}}{0.975} \times \underset{\substack{\nearrow \\ \text{Factor by air temperatures}}}{1.0} \doteq 3.1\text{kW}$$

7. CAPACITY TABLES

Model SRK25ZSP-W

Cooling Mode

(kW)

Model: CRK220F-W		Cooling mode												(kW)	
Air flow	Outdoor air temperature °CDB	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 10.1 (m³/min)	10	2.82	2.47	2.95	2.43	3.06	2.56	3.11	2.53	3.16	2.50	3.26	2.61	3.34	2.54
	12	2.77	2.45	2.90	2.41	3.01	2.54	3.07	2.52	3.12	2.48	3.22	2.60	3.31	2.53
	14	2.71	2.43	2.85	2.39	2.97	2.52	3.03	2.50	3.08	2.47	3.18	2.59	3.28	2.52
	16	2.66	2.40	2.80	2.37	2.92	2.50	2.98	2.48	3.04	2.45	3.15	2.57	3.24	2.51
	18	2.60	2.38	2.74	2.34	2.88	2.49	2.94	2.46	2.99	2.44	3.11	2.56	3.20	2.50
	20	2.55	2.35	2.68	2.32	2.83	2.47	2.89	2.45	2.95	2.42	3.07	2.54	3.17	2.49
	22	2.49	2.32	2.63	2.30	2.78	2.44	2.84	2.43	2.90	2.40	3.02	2.53	3.13	2.48
	24	2.43	2.29	2.57	2.27	2.72	2.42	2.80	2.41	2.85	2.39	2.98	2.52	3.08	2.46
	26	2.37	2.25	2.51	2.24	2.67	2.40	2.74	2.39	2.80	2.37	2.93	2.50	3.04	2.45
	28	2.31	2.19	2.44	2.22	2.61	2.38	2.69	2.37	2.75	2.35	2.89	2.48	3.00	2.44
	30	2.24	2.13	2.38	2.19	2.56	2.36	2.64	2.35	2.70	2.33	2.84	2.47	2.95	2.40
	32	2.18	2.07	2.31	2.16	2.50	2.34	2.58	2.33	2.64	2.31	2.79	2.45	2.90	2.39
	34	2.11	2.00	2.25	2.13	2.44	2.31	2.53	2.31	2.59	2.29	2.74	2.42	2.85	2.38
	35	2.08	1.97	2.21	2.10	2.41	2.29	2.50	2.30	2.56	2.28	2.71	2.41	2.83	2.37
	36	2.04	1.94	2.18	2.07	2.38	2.26	2.47	2.29	2.53	2.27	2.69	2.40	2.80	2.36
	38	1.97	1.87	2.11	2.00	2.32	2.20	2.41	2.26	2.47	2.24	2.63	2.39	2.75	2.35
	40	1.90	1.81	2.03	1.93	2.25	2.14	2.35	2.23	2.41	2.22	2.58	2.37	2.70	2.33
	43	1.79	1.70	1.92	1.83	2.15	2.04	2.26	2.15	2.32	2.19	2.49	2.34	2.61	2.31
	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	2.28

Heating Mode (HC)

(kW)

Air flow	Outdoor air temperature °CWB	Indoor air temperature				
		16°C DB	18°C DB	20°C DB	22°C DB	24°C DB
Hi 10.0 (m³/min)	-15	1.72	1.69	1.65	1.61	1.58
	-10	1.95	1.91	1.89	1.84	1.80
	-5	2.11	2.08	2.04	2.02	1.98
	0	2.21	2.18	2.14	2.12	2.09
	5	2.82	2.79	2.77	2.72	2.68
	6	2.87	2.83	2.80	2.76	2.73
	10	3.04	3.02	3.00	2.96	2.93
	15	3.31	3.28	3.26	3.23	3.20
	20	3.56	3.53	3.52	3.48	3.45

Model SRK35ZSP-W

Cooling Mode

(kW)

Air flow		Outdoor air temperature °CDB	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 9.8 (m³/min)	10	3.61	2.86	3.77	2.81	3.91	2.92	3.98	2.88	4.05	2.84	4.17	2.93	4.28	2.85	
	12	3.54	2.83	3.71	2.78	3.86	2.90	3.93	2.86	4.00	2.83	4.12	2.92	4.24	2.83	
	14	3.47	2.79	3.65	2.75	3.80	2.87	3.87	2.84	3.94	2.80	4.08	2.90	4.19	2.82	
	16	3.40	2.76	3.58	2.72	3.74	2.84	3.82	2.81	3.89	2.78	4.03	2.88	4.15	2.80	
	18	3.33	2.72	3.51	2.69	3.68	2.82	3.76	2.79	3.83	2.76	3.98	2.86	4.10	2.79	
	20	3.26	2.69	3.44	2.65	3.62	2.79	3.70	2.76	3.78	2.73	3.92	2.84	4.05	2.77	
	22	3.19	2.65	3.36	2.62	3.55	2.76	3.64	2.74	3.71	2.71	3.87	2.83	4.00	2.75	
	24	3.11	2.61	3.29	2.58	3.49	2.74	3.58	2.72	3.65	2.69	3.81	2.81	3.95	2.73	
	26	3.03	2.58	3.21	2.55	3.42	2.70	3.51	2.69	3.59	2.66	3.76	2.78	3.89	2.72	
	28	2.95	2.54	3.13	2.51	3.35	2.68	3.45	2.66	3.52	2.64	3.70	2.76	3.84	2.70	
	30	2.87	2.50	3.05	2.48	3.27	2.64	3.38	2.64	3.45	2.61	3.64	2.74	3.78	2.68	
	32	2.79	2.46	2.96	2.44	3.20	2.61	3.31	2.60	3.38	2.58	3.57	2.72	3.72	2.66	
	34	2.70	2.42	2.88	2.40	3.12	2.58	3.24	2.58	3.31	2.56	3.51	2.69	3.65	2.64	
	35	2.66	2.40	2.83	2.38	3.08	2.57	3.20	2.56	3.28	2.54	3.47	2.68	3.62	2.63	
	36	2.61	2.38	2.79	2.36	3.04	2.55	3.16	2.55	3.24	2.53	3.44	2.67	3.59	2.62	
	38	2.52	2.34	2.70	2.32	2.96	2.52	3.09	2.52	3.16	2.50	3.37	2.64	3.52	2.59	
	40	2.43	2.29	2.60	2.28	2.88	2.49	3.01	2.49	3.08	2.47	3.30	2.62	3.45	2.57	
	43	2.29	2.18	2.46	2.22	2.75	2.43	2.89	2.44	2.96	2.42	3.19	2.58	3.35	2.54	
	46	2.15	2.04	2.31	2.15	2.62	2.38	2.77	2.39	2.84	2.38	3.08	2.54	3.23	2.50	

Heating Mode (HC)

(kW)

Air flow	Outdoor air temperature °CWB	Indoor air temperature				
		16°C DB	18°C DB	20°C DB	22°C DB	24°C DB
Hi 10.1 (m³/min)	-15	2.21	2.17	2.12	2.07	2.03
	-10	2.51	2.46	2.43	2.37	2.32
	-5	2.71	2.68	2.62	2.59	2.55
	0	2.85	2.80	2.76	2.72	2.68
	5	3.63	3.58	3.56	3.49	3.44
	6	3.68	3.64	3.60	3.55	3.51
	10	3.91	3.88	3.85	3.80	3.76
	15	4.26	4.22	4.19	4.15	4.11
	20	4.58	4.54	4.52	4.47	4.43

Model SRK45ZSP-W

Cooling Mode

(kW)

Air flow		Outdoor temperature °CDB	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	
Hi 9.1 (m³/min)	10	5.07	3.60	5.31	3.55	5.50	3.61	5.59	3.56	5.69	3.50	5.86	3.53	6.02	3.40	
	12	4.98	3.55	5.22	3.50	5.42	3.57	5.52	3.52	5.62	3.46	5.80	3.51	5.96	3.38	
	14	4.88	3.50	5.13	3.44	5.34	3.53	5.45	3.48	5.55	3.43	5.73	3.48	5.90	3.36	
	16	4.79	3.44	5.03	3.39	5.26	3.49	5.37	3.44	5.47	3.39	5.66	3.45	5.83	3.33	
	18	4.69	3.39	4.93	3.34	5.18	3.44	5.29	3.40	5.39	3.35	5.59	3.42	5.77	3.30	
	20	4.59	3.32	4.83	3.28	5.09	3.39	5.20	3.36	5.31	3.32	5.52	3.39	5.70	3.28	
	22	4.48	3.26	4.73	3.22	5.00	3.35	5.12	3.32	5.22	3.28	5.44	3.35	5.63	3.25	
	24	4.37	3.21	4.62	3.17	4.90	3.30	5.03	3.28	5.14	3.24	5.36	3.32	5.55	3.21	
	26	4.26	3.14	4.51	3.11	4.80	3.25	4.94	3.23	5.05	3.19	5.28	3.28	5.48	3.18	
	28	4.15	3.08	4.40	3.06	4.70	3.21	4.85	3.19	4.95	3.15	5.20	3.24	5.40	3.15	
	30	4.04	3.02	4.28	2.99	4.60	3.16	4.75	3.14	4.86	3.11	5.11	3.21	5.31	3.13	
	32	3.92	2.95	4.16	2.93	4.50	3.11	4.65	3.10	4.76	3.06	5.02	3.18	5.23	3.09	
	34	3.80	2.89	4.04	2.87	4.39	3.06	4.55	3.05	4.66	3.02	4.93	3.14	5.14	3.06	
	35	3.74	2.86	3.98	2.84	4.34	3.03	4.50	3.03	4.61	3.00	4.88	3.12	5.09	3.04	
	36	3.67	2.82	3.92	2.81	4.28	3.00	4.45	3.00	4.55	2.97	4.84	3.10	5.05	3.02	
	38	3.55	2.76	3.79	2.74	4.17	2.95	4.34	2.96	4.45	2.93	4.74	3.06	4.95	2.99	
	40	3.42	2.69	3.66	2.68	4.05	2.90	4.23	2.91	4.34	2.88	4.64	3.02	4.85	2.95	
	43	3.22	2.59	3.46	2.59	3.87	2.82	4.06	2.83	4.17	2.81	4.49	2.96	4.70	2.90	
	46	3.02	2.49	3.25	2.49	3.69	2.73	3.89	2.75	3.99	2.73	4.33	2.90	4.55	2.84	

Heating Mode (HC)

(kW)

Heating mode (H)		(kW)				
Air flow	Outdoor air temperature °CWB	Indoor air temperature				
		16°C DB	18°C DB	20°C DB	22°C DB	24°C DB
Hi 12.1 (m³/min)	-15	3.08	3.01	2.94	2.88	2.81
	-10	3.48	3.42	3.37	3.29	3.22
	-5	3.77	3.72	3.64	3.60	3.54
	0	3.95	3.89	3.83	3.78	3.73
	5	5.04	4.98	4.95	4.85	4.78
	6	5.12	5.06	5.00	4.94	4.88
	10	5.44	5.38	5.35	5.28	5.23
	15	5.92	5.87	5.82	5.76	5.71
	20	6.36	6.31	6.28	6.21	6.16

8. APPLICATION DATA

Models SRK25ZSP-W, 35ZSP-W, 45ZSP-W

RLC012A105

Model SRK25, 35, 45ZSP-W
R32 REFRIGERANT USED

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.

⚠ WARNING

- | | |
|--|--|
| <ul style="list-style-type: none"> • 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. • 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. | <ul style="list-style-type: none"> • 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.
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. |
| | <ul style="list-style-type: none"> • 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 3 mm.
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

It can cause corrosion of heat exchanger and damage to plastic parts. • Take care when carrying the unit by hand. If the unit weight is more than 20 kg, 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 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. • TV set or radio receiver is placed within 1 m. • Height above sea level is more than 1000 m. • 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 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. Aluminum 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.
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ACCESSORIES AND TOOLS

Standard accessories (supplied with indoor unit)				
(1) Installation board	1pc		(6) Batteries [R03 (AAA, Micro) 1.5V]	2pcs
(2) Remote control	1pc		(7) Air-cleaning filters (LMK model only)	2pcs
(3) Remote control holder	1pc		(8) Filter holders (LMK model only)	2pcs
(4) Tapping screws (for installation board ø4 X 25 mm)	5pcs		(9) Insulation (#486 50 X 100 (3))	1pc
(5) Wood screws (for remote control holder ø3.5 X 16 mm)	2pcs			
Standard accessories (supplied with outdoor unit)				
(1) Drain grommet	1pc		(2) Drain elbow	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) Anchor bolt (M10-M12) × 4pcs	
(j) Electrical tape	
(k) Connecting pipe	
(l) Power cable	

Tools for installation work	
Plus headed driver	Hole core drill (65 mm in diameter)
Knife	Wrench key (Hexagon) [4 mm]
Saw	Flaring tool set*
Tape measure	Gas leak detector*
Torque wrench (14.0-62.0 N·m (1.4-6.2 kgf·m))	Pipe bender
Plier	Gauge for projection adjustment (Used when flare is made by using conventional flare tool)
Pipe cutter	
Spanner wrench	Charge hose *
Flare adjustment gauge	
Vacuum pump*	Vacuum pump adapter* (Anti-reverse flow type)
Gauge manifold *	

* Designed specifically for R32 or R410A

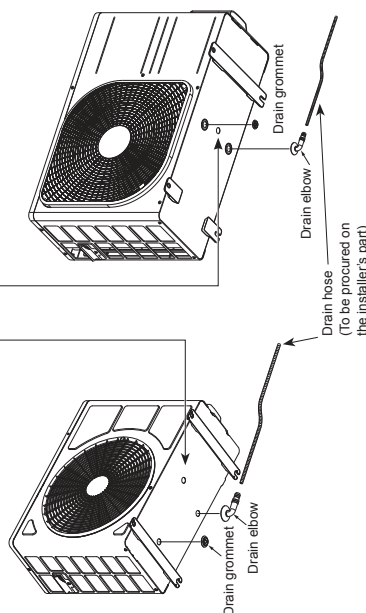
DRAIN PIPING WORK (if necessary)

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.

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.

<DXK09/12, SRK25/35, LMK09/12>



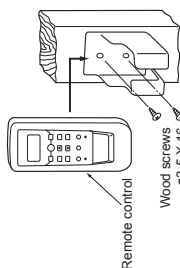
CAUTION

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.)

INSTALLING 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 the poles with the indication marks + & -)
- (3) Set the cover again.



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.

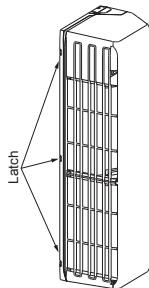
HOW TO REMOVE AND INSTALL FRONT PANEL

1. Removing

- (1) Remove the air inlet panel and the air filters.
- (2) Remove the 2 screws.
- (3) Remove the 3 upper latches and then front panel can be removed.

2. Installing

- (1) Cover the unit with the front panel and fix 3 upper latches.
- (2) Secure the front panel with the 2 screws.
- (3) Install the air inlet panel and the air filters.



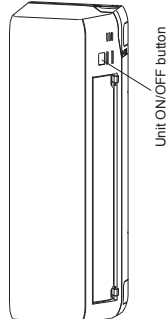
PUMP DOWN WORK

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.
- (2) 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.

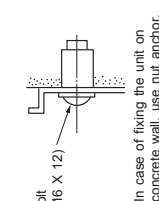
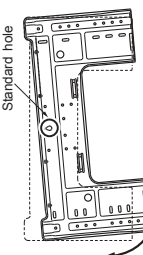


1. INSTALLING INSTALLATION BOARD

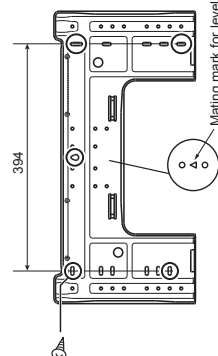
Installation board should be installed on the wall which can support the weight of the indoor unit.

- Adjustment of the installation board in the horizontal direction is to be conducted with five screws in a temporary

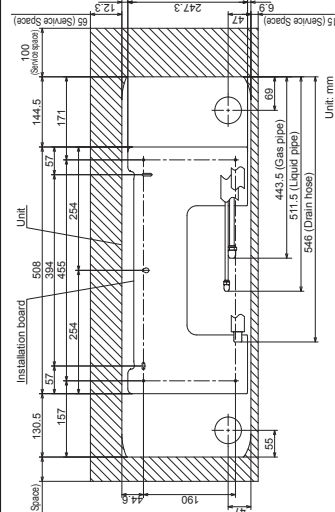
- With the standard hole as a center, adjust the board and level it.



In case of fixing the unit on concrete wall, use nut anchor.



Mating mark for level surface

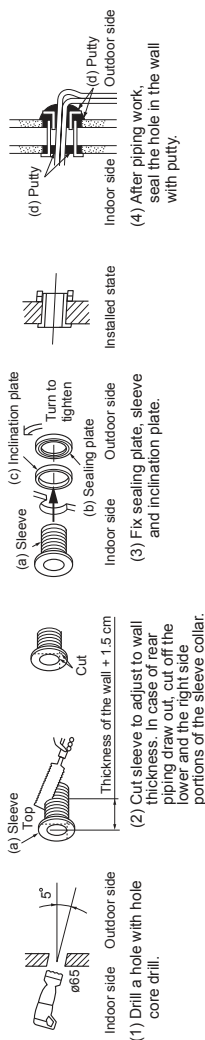


CAUTION

Improper adjustment of the installation board can cause water leakage.

2. 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).



3. ELECTRICAL WIRING WORK

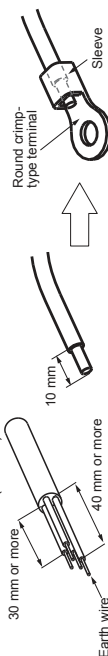
- Before installation, make sure that the power source complies with the air-conditioner's power specification.
- Carry out electrical wiring work according to following guidelines.

1. Preparing cable

- (1) Selecting cable
Select the power source cable and connecting cable in accordance with the specifications mentioned below.
 - (a) Power source cable
 - 3 cores* 2.5 mm² or more, conformed with 60245 IEC57
 - When selecting the power source cable length, make sure that voltage drop is less than 2 %.
 - If the wire length gets longer, increase the wire diameter.
 - (b) Connecting cable
 - 4 cores* 1.5 mm², 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 10 mm from the end.
- (3) Attach round crimp-type terminal to each wire as shown in the below.

<Connecting cable (4 wires)>

<Wire end>



2. Connecting cable (Indoor)

-
- The screw of the lid is tightened securely
- Terminal cover
- Lid
- Terminal block
- (1) Remove the lid.
 - (2) Remove the terminal cover.
 - (3) Remove the cable clamp.
 - (4) Connect the connecting wire to the terminal block.
 - (5) Fix the connecting cable by cable clamp.
 - (6) Fix the terminal cover.
 - (7) Fix the lid.

NOTE

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

⚠ WARNING

Incorrect wiring connection can cause malfunction or fire.

⚠ WARNING

- Make sure that all the electrical work is carried out in accordance with the national or regional electrical standards.
- Make sure that the earth leakage breaker and circuit breaker of appropriate capacities are installed (Refer to the table given below).
- Do not turn on the power until the electrical work is completed.
- Do not use a condensive capacitor for power factor improvement under any circumstances. (It does not improve power factor. Moreover, it can cause an abnormal overheating accident.)

Breaker specifications

Model	Phase	Earth leakage breaker	Circuit breaker
DXK09/12, SRK25/35, LMK09/12	Single phase	Leakage current: 30 mA, 0.1sec or less	Over current: 16 A
DXK15, SRK45, LMK15			Over current: 20 A

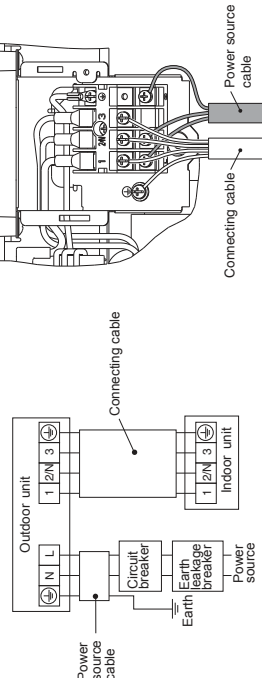
Main fuse specification

Specification	Parts No.	Code on LABEL, WIRING
250 V 15 A	SSA564A136	F7

3. Connecting cable (Outdoor)

- 1) Remove the service cover.
- 2) Connect the cables according to the instructions and figures given below.
 - (a) Connect the earth wire of power source cable.
An earth wire must be connected before connecting the other wires of power source cable. Keep the earth wire longer than the remaining two wires of power source cable.
 - (b) Connect the remaining two wires (N and L) of power source cable.
 - (c) Connect the wires of connecting cable. Make sure that for each wire, outdoor and indoor side terminal numbers match.
- 3) Fasten the cables properly with cable clamps so that no external force may work on terminal connectors. Moreover, make sure that cables do not touch the piping, etc. When cables are connected, make sure that all electrical components within the electrical component box are free of loose connector coupling or terminal connection.

<Circuit diagram>



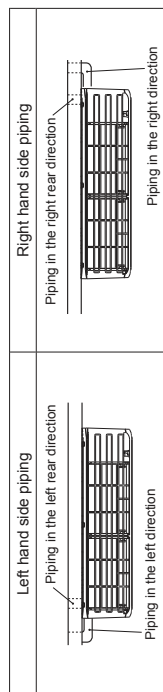
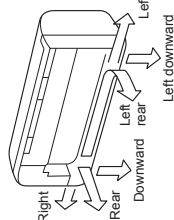
4. FORMING PIPING AND DRAIN HOSE

1. Forming piping

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

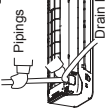
NOTE

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



Forming of pipings

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



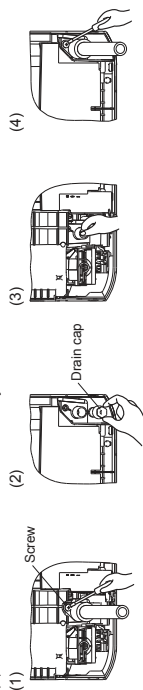
Taping of the exterior

- 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.

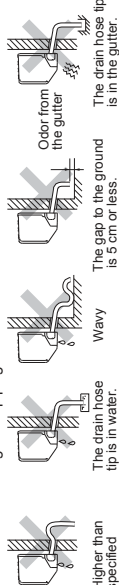


CAUTION

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

5. DRAINAGE WORK

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

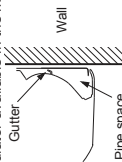


CAUTION

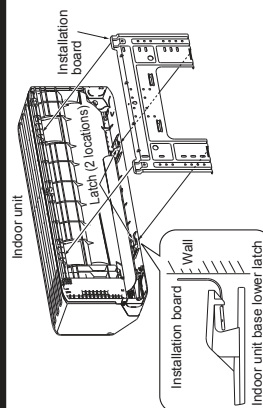
Incorrect drainage work can cause water leakage.

- 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.



6. INSTALLING INDOOR UNIT

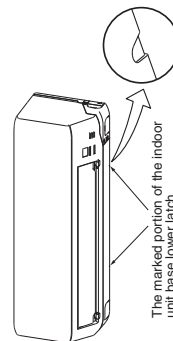


Installation steps

- (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 secure the unit.

How to remove the indoor unit from the installation board

- (1) Push up at the marked portion of the indoor unit base lower latch, and slightly pull it toward you. (Both right and left hand sides) (The indoor unit base lower latch can be removed from the installation board.)
- (2) Push up the indoor unit upward so that it can be removed from the installation board.



7. CONNECTING PIPING WORK

1. Preparation of connecting pipe

1.1. Selecting connecting pipe
Select connecting pipe according to the following table.

	Model DXK09/12 SRK25/35 LMK09/12	Model DXK15 SRK45 LMK15
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

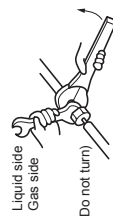
- (1) Take out flare nuts from the service valves of indoor unit and engage them onto connecting pipes.
- (2) Flare the pipes according to table and figure shown below.
Flare dimensions for R32 are different from those for conventional refrigerant. Although it is recommended to use the flaring tools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

A	Copper pipe outer diameter	A	B [Rigid (clutch) type]	B [Conventional]
ø6.35	9.1	ø6.35	0-0.5	1.0-1.5
ø9.52	13.2	ø9.52		
ø12.7	16.6	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

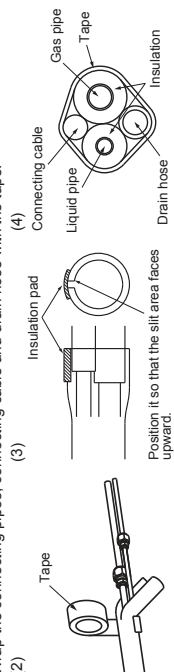


CAUTION

- 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

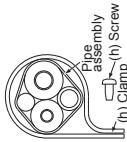
Locations where relative humidity exceeds 70 %, both liquid and gas pipes need to be dressed with 20 mm or thicker heat insulation materials.

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.

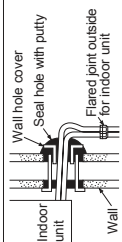
4. Finishing work

- (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 within 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 1.5 m 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

- 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.



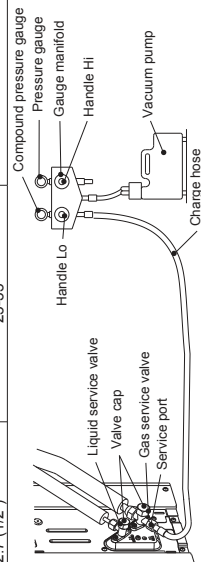
CAUTION

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.

5. 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 -0.1 MPa (-76 cm 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.
- (5) Keep this state for a few minutes to make sure that the compound pressure gauge pointer does not swing back. Remove valve caps from liquid service valve and gas service valve.
- (6) Turn the liquid service valve's rod 90 degree counterclockwise with a hexagonal wrench key to open valve. 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.

8. 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.

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.

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 lid is tightened securely.	

Test run

Check following points during test run.

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

9. TECHNICAL INFORMATION

Model SRK25ZSP-W

Information to identify the model(s) to which the information relates to:				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'			
Indoor unit model name		SRK25ZSP-W					
Outdoor unit model name		SRC25ZSP-W					
Function(indicate if present)				Average(mandatory)			
cooling		Yes		Warmer(if designated)		Yes	
heating		Yes		Colder(if designated)		No	
Item	symbol	value	unit	Item	symbol	value	class
Design load				Seasonal efficiency and energy efficiency class			
cooling	Pdesignc	2.50	kW	cooling	SEER	6.80	A++
heating / Average	Pdesignh	2.80	kW	heating / Average	SCOP/A	4.10	A+
heating / Warmer	Pdesignh	3.30	kW	heating / Warmer	SCOP/W	5.40	A+++
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor temperature Tdesignh				Back up heating capacity at outdoor temperature Tdesignh			
heating / Average (-10°C)	Pdh	2.46	kW	heating / Average (-10°C)	elbu	0.34	kW
heating / Warmer (2°C)	Pdh	3.30	kW	heating / Warmer (2°C)	elbu	0	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	2.50	kW	Tj=35°C	EERd	3.52	-
Tj=30°C	Pdc	1.85	kW	Tj=30°C	EERd	5.70	-
Tj=25°C	Pdc	1.25	kW	Tj=25°C	EERd	9.36	-
Tj=20°C	Pdc	1.10	kW	Tj=20°C	EERd	12.90	-
Declared capacity for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	2.50	kW	Tj=-7°C	COPd	2.44	-
Tj=2°C	Pdh	1.44	kW	Tj=2°C	COPd	3.98	-
Tj=7°C	Pdh	1.00	kW	Tj=7°C	COPd	5.74	-
Tj=12°C	Pdh	1.10	kW	Tj=12°C	COPd	7.30	-
Tj=bivalent temperature	Pdh	2.50	kW	Tj=bivalent temperature	COPd	2.44	-
Tj=operating limit	Pdh	2.40	kW	Tj=operating limit	COPd	2.06	-
Declared capacity for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	Pdh	3.30	kW	Tj=2°C	COPd	2.34	-
Tj=7°C	Pdh	2.10	kW	Tj=7°C	COPd	4.80	-
Tj=12°C	Pdh	1.10	kW	Tj=12°C	COPd	7.30	-
Tj=bivalent temperature	Pdh	3.30	kW	Tj=bivalent temperature	COPd	2.34	-
Tj=operating limit	Pdh	2.40	kW	Tj=operating limit	COPd	2.06	-
Declared capacity for heating / Colder season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	-
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-7	°C	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	2	°C	heating / Warmer	Tol	-15	°C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcyc	-	kW	for cooling	EERcyc	-	-
for heating	Pcyc	-	kW	for heating	COPcyc	-	-
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25	-	heating	Cdh	0.25	-
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
off mode	Poff	6	W	cooling	Qce	129	kWh/a
standby mode	Psb	6	W	heating / Average	Qhe	957	kWh/a
thermostat-off mode	Pto(cooling)	11	W	heating / Warmer	Qhe	855	kWh/a
	Pto(heating)	15	W	heating / colder	Qhe	-	kWh/a
crankcase heater mode	Pck	0	W				
Capacity control(indicate one of three options)				Other items			
fixed	No			Sound power level(indoor)	Lwa	57	dB(A)
staged	No			Sound power level(outdoor)	Lwa	57	dB(A)
variable	Yes			Global warming potential	GWP	675	kgCO2eq
				Rated air flow(indoor)	-	600	m3/h
				Rated air flow(outdoor)	-	1422	m3/h
Contact details for obtaining more information	Name and address of the manufacturer or of its authorised representative. Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd. 5 The Square, Stockley Park, Uxbridge, Middlesex, UB11 1ET, United kingdom						

Model SRK35ZSP-W

Information to identify the model(s) to which the information relates to:				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.			
Indoor unit model name		SRK35ZSP-W		Average(mandatory)		Yes	
Outdoor unit model name		SRC35ZSP-W		Warmer(if designated)		Yes	
Function(indicate if present)				Colder(if designated)			
cooling		Yes					
heating		Yes					
Item	symbol	value	# unit	Item	symbol	value	class
Design load				Seasonal efficiency and energy efficiency class			
cooling	Pdesignc	3.20	kW	cooling	SEER	7.30	A++
heating / Average	Pdesignh	3.00	kW	heating / Average	SCOP/A	4.40	A+
heating / Warmer	Pdesignh	3.60	kW	heating / Warmer	SCOP/W	5.70	A+++
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
				unit			
Declared capacity at outdoor temperature Tdesignh				Back up heating capacity at outdoor temperature Tdesignh			
heating / Average (-10°C)	Pdh	2.63	kW	heating / Average (-10°C)	elbu	0.37	kW
heating / Warmer (2°C)	Pdh	3.60	kW	heating / Warmer (2°C)	elbu	0	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	3.20	kW	Tj=35°C	EERd	3.52	-
Tj=30°C	Pdc	2.36	kW	Tj=30°C	EERd	5.50	-
Tj=25°C	Pdc	1.52	kW	Tj=25°C	EERd	9.70	-
Tj=20°C	Pdc	1.14	kW	Tj=20°C	EERd	16.06	-
Declared capacity for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	2.66	kW	Tj=-7°C	COPd	2.64	-
Tj=2°C	Pdh	1.62	kW	Tj=2°C	COPd	4.36	-
Tj=7°C	Pdh	1.04	kW	Tj=7°C	COPd	5.95	-
Tj=12°C	Pdh	1.19	kW	Tj=12°C	COPd	7.48	-
Tj=bivalent temperature	Pdh	2.66	kW	Tj=bivalent temperature	COPd	2.64	-
Tj=operating limit	Pdh	2.57	kW	Tj=operating limit	COPd	2.21	-
Declared capacity for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	Pdh	3.60	kW	Tj=2°C	COPd	2.55	-
Tj=7°C	Pdh	2.32	kW	Tj=7°C	COPd	5.17	-
Tj=12°C	Pdh	1.19	kW	Tj=12°C	COPd	7.48	-
Tj=bivalent temperature	Pdh	3.60	kW	Tj=bivalent temperature	COPd	2.55	-
Tj=operating limit	Pdh	2.57	kW	Tj=operating limit	COPd	2.21	-
Declared capacity for heating / Colder season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	-
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-7	°C	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	2	°C	heating / Warmer	Tol	-15	°C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	-
for heating	Pcyh	-	kW	for heating	COPcyc	-	-
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25	-	heating	Cdh	0.25	-
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
off mode	Poff	6	W	cooling	Qce	154	kWh/a
standby mode	Psb	6	W	heating / Average	Qhe	955	kWh/a
thermostat-off mode	Pto(cooling)	11	W	heating / Warmer	Qhe	884	kWh/a
	Pto(heating)	15	W	heating / colder	Qhe	-	kWh/a
crankcase heater mode	Pck	0	W				
Capacity control(indicate one of three options)				Other items			
fixed		No		Sound power level(indoor)	Lwa	58	dB(A)
staged		No		Sound power level(outdoor)	Lwa	59	dB(A)
variable		Yes		Global warming potential	GWP	675	kgCO2eq.
				Rated air flow(indoor)	-	570	m3/h
				Rated air flow(outdoor)	-	1368	m3/h
Contact details for obtaining more information	Name and address of the manufacturer or of its authorised representative. Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd. 5 The Square, Stockley Park, Uxbridge, Middlesex, UB11 1ET, United kingdom						

Model SRK45ZSP-W

Information to identify the model(s) to which the information relates to:				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.			
Indoor unit model name		SRK45ZSP-W		Average(mandatory)		Yes	
Outdoor unit model name		SRC45ZSP-W		Warmer(if designated)		Yes	
Function(indicate if present)				Colder(if designated)			
cooling		Yes					
heating		Yes					
Item	symbol	value	unit	Item	symbol	value	class
Design load				Seasonal efficiency and energy efficiency class			
cooling	Pdesignc	4.50	kW	cooling	SEER	6.30	A++
heating / Average	Pdesignh	3.80	kW	heating / Average	SCOP/A	4.20	A+
heating / Warmer	Pdesignh	4.30	kW	heating / Warmer	SCOP/W	5.50	A+++
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor temperature Tdesignh				Back up heating capacity at outdoor temperature Tdesignh			
heating / Average (-10°C)	Pdh	3.26	kW	heating / Average (-10°C)	elbu	0.54	kW
heating / Warmer (2°C)	Pdh	4.30	kW	heating / Warmer (2°C)	elbu	0	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	4.50	kW	Tj=35°C	EERd	3.33	-
Tj=30°C	Pdc	3.32	kW	Tj=30°C	EERd	5.05	-
Tj=25°C	Pdc	2.13	kW	Tj=25°C	EERd	7.75	-
Tj=20°C	Pdc	1.80	kW	Tj=20°C	EERd	12.09	-
Declared capacity for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	3.36	kW	Tj=-7°C	COPd	2.61	-
Tj=2°C	Pdh	2.05	kW	Tj=2°C	COPd	4.10	-
Tj=7°C	Pdh	1.44	kW	Tj=7°C	COPd	5.70	-
Tj=12°C	Pdh	1.62	kW	Tj=12°C	COPd	7.10	-
Tj=bivalent temperature	Pdh	3.36	kW	Tj=bivalent temperature	COPd	2.61	-
Tj=operating limit	Pdh	3.09	kW	Tj=operating limit	COPd	2.34	-
Declared capacity for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	Pdh	4.30	kW	Tj=2°C	COPd	2.76	-
Tj=7°C	Pdh	2.76	kW	Tj=7°C	COPd	5.12	-
Tj=12°C	Pdh	1.62	kW	Tj=12°C	COPd	7.10	-
Tj=bivalent temperature	Pdh	4.30	kW	Tj=bivalent temperature	COPd	2.76	-
Tj=operating limit	Pdh	3.09	kW	Tj=operating limit	COPd	2.34	-
Declared capacity for heating / Colder season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	-
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-7	°C	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	2	°C	heating / Warmer	Tol	-15	°C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	-
for heating	Pcyh	-	kW	for heating	COPcyc	-	-
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25	-	heating	Cdh	0.25	-
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
off mode	Poff	7	W	cooling	Qce	251	kWh/a
standby mode	Psb	7	W	heating / Average	Qhe	1269	kWh/a
thermostat-off mode	Pto(cooling)	18	W	heating / Warmer	Qhe	1095	kWh/a
	Pto(heating)	20	W	heating / colder	Qhe	-	kWh/a
crankcase heater mode	Pck	0	W				
Capacity control(indicate one of three options)				Other items			
fixed		No		Sound power level(indoor)	Lwa	56	dB(A)
staged		No		Sound power level(outdoor)	Lwa	63	dB(A)
variable		Yes		Global warming potential	GWP	675	kgCO2eq.
				Rated air flow(indoor)	-	540	m3/h
				Rated air flow(outdoor)	-	2136	m3/h
Contact details for obtaining more information	Name and address of the manufacturer or of its authorised representative. Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd. 5 The Square, Stockley Park, Uxbridge, Middlesex, UB11 1ET, United kingdom						

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