



September 2014

SR Series

Inverter Residential Air Conditioners



MHIAA is proudly sponsoring
Monika's Doggie Rescue

SR Series.

Inverter Residential Air Conditioners.



The ideal solution
for air conditioning

Equipped with an easy to use controller boasting an assortment of convenient functions and filters, compact stylish design and quiet operation, a Mitsubishi Heavy Industries air conditioner will be a valuable addition to any home.

The SR range includes capacities from as low as 2.0kW to as high as 9.2kW which means you can heat or cool the smallest bedrooms to the largest entertainment areas. Mitsubishi Heavy Industries prides themselves on the reliability of the air conditioners, with offices across Australia and New Zealand and an extensive network of service agents available.



DRED.

DRED enabled (complies to AS/NZS4755)

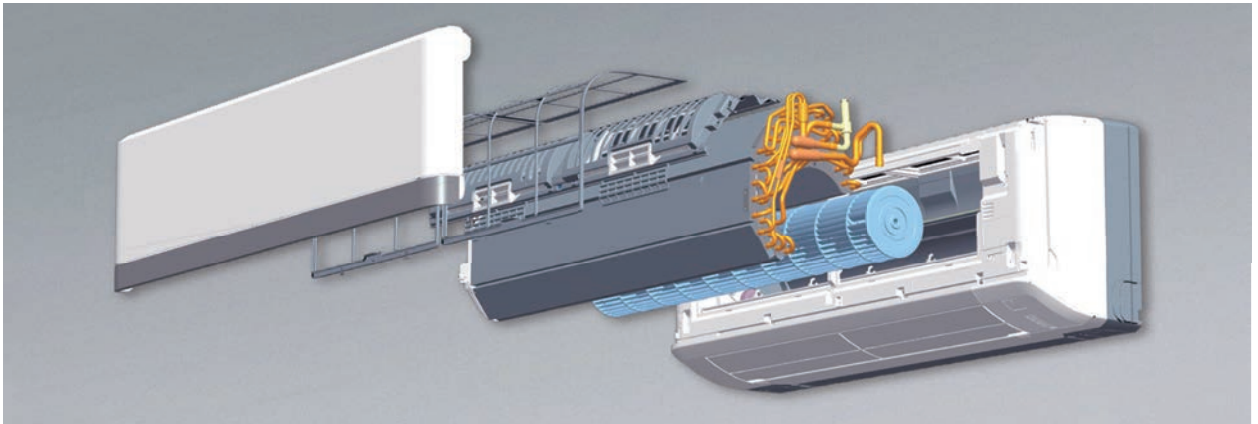
The new RAC model range include a Demand Response Enabling Device (DRED) built into each indoor unit in the ZMA/ZMXA range.

A unit installed with a DRED device allows you to participate in incentive programs applicable to your region, such as the ENERGEX QLD Positive Payback Program.



Anti-microbial specifications and design enhances cleanliness and safety

Anti-microbial indoor fan



The indoor fan has undergone a treatment to resist growth of mould and germs. Mould creating odours can occur when an air conditioner is not in operation.

·Intestinal bacteria (Escherichia coli IFO 3972)
·Staphylococcus aureus subsp. aureus IFO 12732
Testing Authority: Japan Food Analysis Center
Test Results Issued: 2004-4-7.

Test Report No.: 104034022-001
Tests were conducted with reference to the antimicrobial strength tests in JIS Z 2801 2000 "Antimicrobial Products-Antimicrobial Test Method" -5.2 Antimicrobial Effects: Test Methods for Plastic Products, etc.
·Aspergillus niger IFO 6341

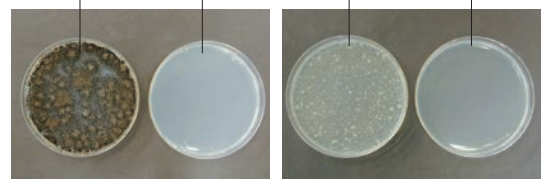
Testing Authority: Japan Food Analysis Center
Test Results Issued: 2004-4-23.
Test Report No.: 104034022-002

Tests were conducted with reference to the antimicrobial strength tests in JIS Z 2801 2000 "Antimicrobial Products-Antimicrobial Test Method" -5.2 Antimicrobial Effects: Test Methods for Plastic Products, etc.



Comparison of growth of bacteria and mold on fan surfaces (microscopic image)

without Anti-microbial with Anti-microbial without Anti-microbial with Anti-microbial

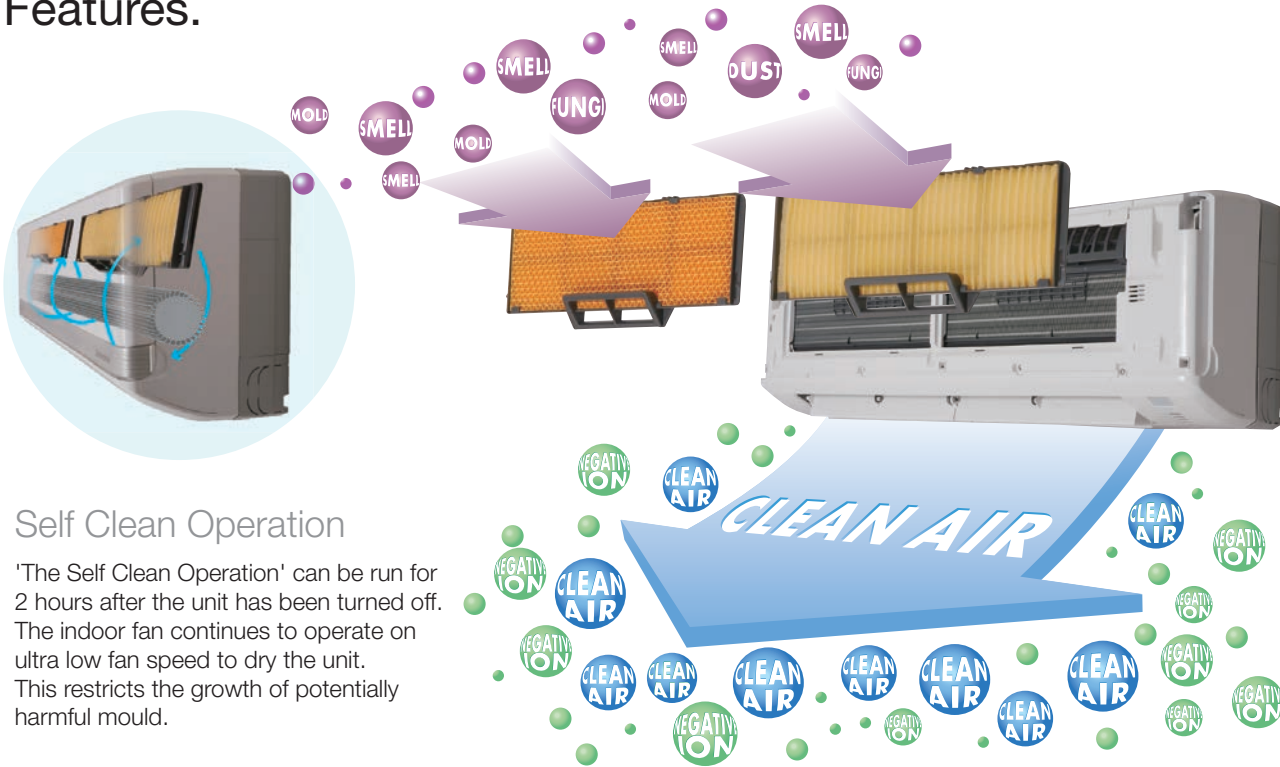


Aspergillus niger IFO 6341

Escherichia coli IFO 3972

In tests conducted at the Mitsubishi Heavy Industries Nagoya Research Lab, 24 hrs after contact with bacteria, cultured on agar media.

Features.

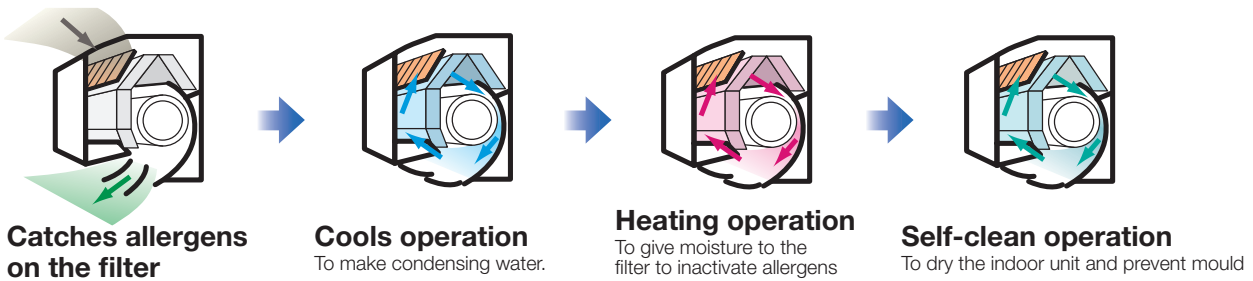


Self Clean Operation

'The Self Clean Operation' can be run for 2 hours after the unit has been turned off. The indoor fan continues to operate on ultra low fan speed to dry the unit. This restricts the growth of potentially harmful mould.

Allergen Clear System

The 'Allergen Clear System' controls the allergens caught by the filter by modifying the temperature and humidity of the unit.

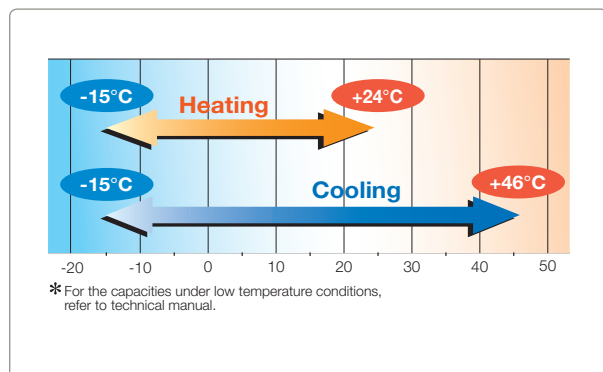


Catches allergens on the filter

Cools operation
To make condensing water.

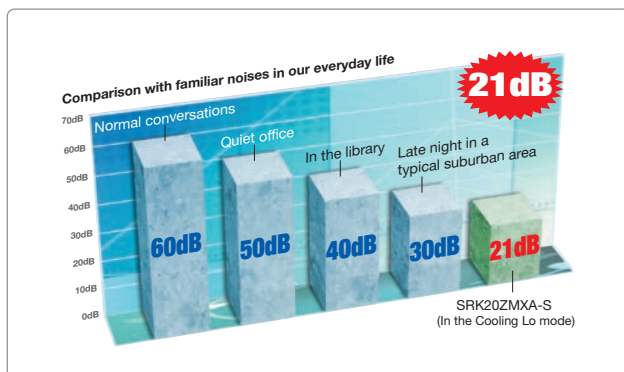
Heating operation
To give moisture to the filter to inactivate allergens

Self-clean operation
To dry the indoor unit and prevent mould



Wide Operation Range

Heating and cooling operation is possible at an outdoor temperature as low as -15°C . Units can be installed when heating or cooling operation is required at low ambient conditions down to -15°C .

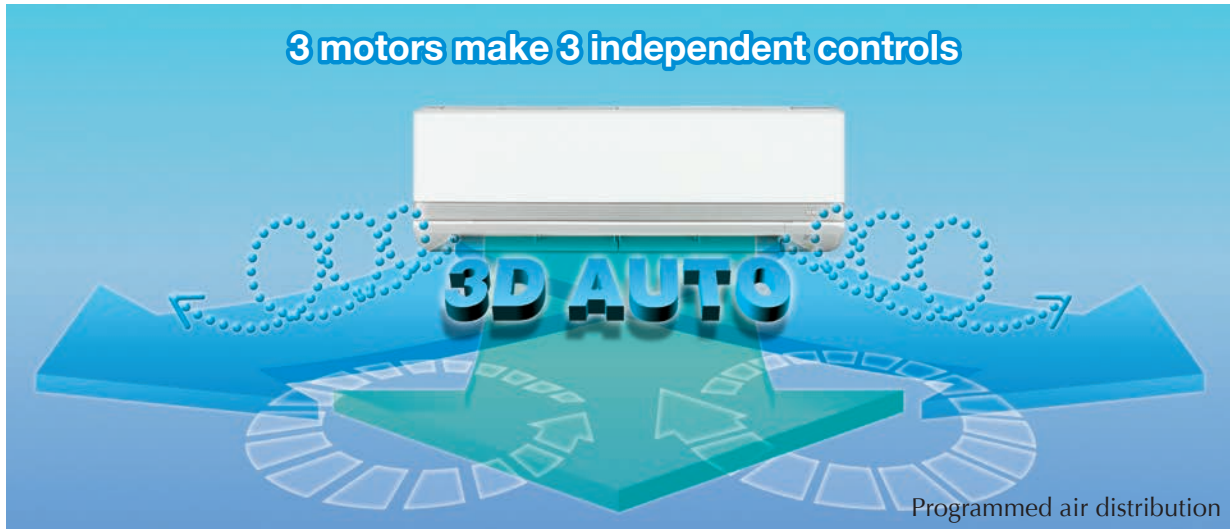


Quiet Operation

The secret of quiet operation. Ultra quiet airflow is created by minimising interaction between the fan and the air.

Airflow.

3D AUTO Vertical + Horizontal AIR SCROLL.



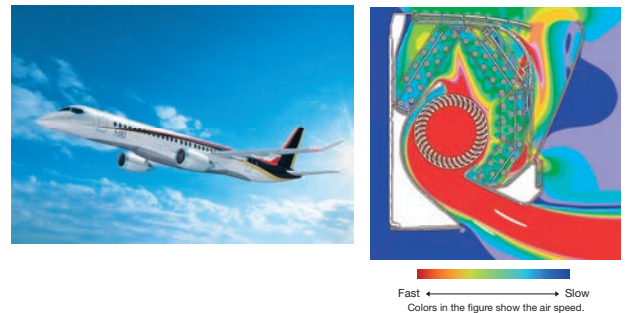
3D AUTO is a one touch programme. Three motors (one vertical working motor + two horizontal working motors) make three independent air flow controls. The airflow is uniform, quiet and reaches at long distance from the indoor unit.

Jet air scroll long reach & silent air flow.

Aircraft technology was used in the design of the air conditioner's airflow system

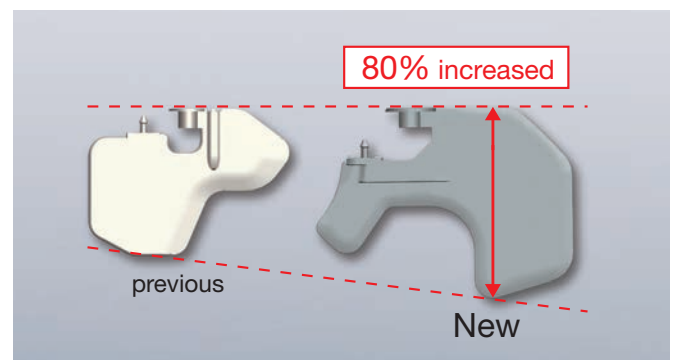
We used the same aerodynamic analysis technology as used in developing jet engines.

CFD (computational fluid dynamics) is used for blade shape design and air channels for jet engines. The same technology has been used in our air conditioners. The airflow of the jets created in this system enables a large volume of air to be blown with a minimum amount of power consumption. The airflow is uniform, quiet and reaches a long distance from the indoor unit.



New louver

The new louver has a new design and shape. It has increased in surface area by 80%. In addition to improved control of the increased air flow volume, it has improved controllability of the right to left swing function.

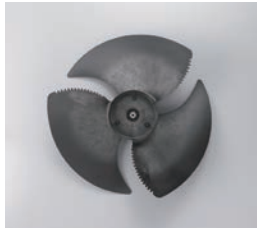


Our Latest Technologies.

Applied to all inverter models.

New propeller fan

The new propeller fan was carefully matched with a fan motor in order to keep the same capacity as that of previous models with less electrical consumption. In synergy with the leaf shape grill has seen an improvement of energy efficiency and a decrease of sound level. (SRC50/60ZMXA-S)



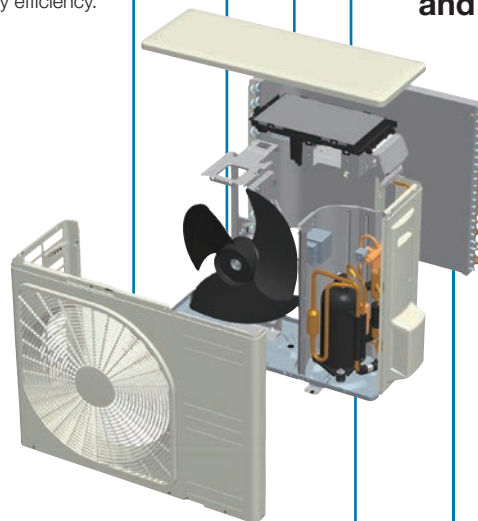
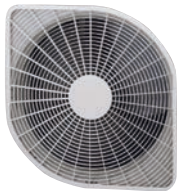
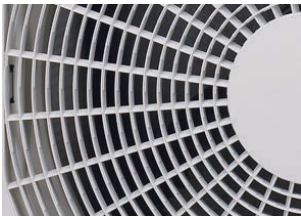
Silicon-coated PCB

The printed circuit board of the outdoor unit is coated by silicon. The coating ensures longevity of the board in humid conditions.



Energy saving leaf shape grill

The leaf shape grill was developed in order to maximize natural air flow sent by the propeller fan along the grill. The airflow is very smooth with minimum air resistance. This has led to a decreased fan motor load and improvement of energy efficiency. (SRC20-50ZMA-S) (SRC20-50ZMXA-S)



High efficiency scroll compressor. Low vibration and low sound level

By using a scroll compressor there has been an improvement of energy efficiency. Lower vibration and lower sound level have been achieved. Further improvement to efficiency was realized by use of a neodymium magnet applied in the compressor motor. (SRC50/60ZMXA-S)



photo is composite image

Superior corrosion resistance

The base of the outdoor unit is hot dipped to provide superior corrosion and scratch resistance.



Indoor unit

A combination of fin configuration and copper tube has enabled maximum air flow while keeping the same size width of the indoor unit. Efficiency rate of heat exchanger has been improved compared with previous models. The new fin design allows maximum air flow and saving energy.



Outdoor unit

Redesigned by changing the fin configuration from flat sheet to new M shape fin, efficiency has been improved. An optimum balance of heat transfer and air flow has been achieved.



SRK-ZMA-S

Reverse Cycle Inverter

Hyper Inverter



SRK20ZMA-S • SRK25ZMA-S • SRK35ZMA-S • SRK50ZMA-S



SRC20ZMA-S • SRC25ZMA-S
SRC35ZMA-S

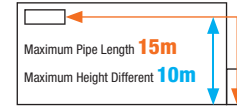


SRC50ZMA-S



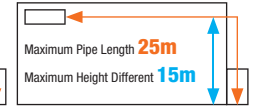
Most SRK-ZMA-S series can be selected for use as indoor units in combination with the SCM Multi system outdoor unit.

Refrigerant Pipe Length



SRK20ZMA-S • SRK25ZMA-S • SRK35ZMA-S

Refrigerant Pipe Length



SRC50ZMA-S

FUNCTIONS



Indoor			SRK20ZMA-S	SRK25ZMA-S	SRK35ZMA-S	SRK50ZMA-S
Outdoor			SRC20ZMA-S	SRC25ZMA-S	SRC35ZMA-S	SRC50ZMA-S
Power supply			1 Phase 220~240V 50Hz			
Capacity	Cooling T1	kW	2.0 (1.0~2.7)	2.5 (1.0~2.9)	3.3 (1.0~3.8)	5.0 (1.6~5.5)
	Heating H1		2.7 (1.2~3.9)	3.2 (1.2~4.6)	4.0 (1.3~4.8)	5.8 (1.6~6.6)
	Heating H2		3.23	3.79	4.04	5.19
Input	Cooling T1	kW	0.44 (0.21~0.77)	0.575 (0.27~0.81)	0.87 (0.21~1.20)	1.55 (0.40~2.20)
	Heating H1		0.62 (0.27~1.38)	0.70 (0.27~1.36)	0.955 (0.29~1.45)	1.59 (0.42~2.10)
Energy label	Cooling T1	Stars	4	4	3	1.5
	Heating H1		4	4.5	4	2.5
EER	Cooling T1		4.55	4.35	3.79	3.23
COP	Heating H1		4.35	4.57	4.19	3.65
	Heating H2		2.64	2.62	2.80	2.40
Sound power level (JIS C9612)	Cooling (Outdoor)	dB(A)	59	58	60	61
	Heating (Outdoor)		58	59	61	63
Sound pressure level (JIS C9612)	Cooling (Indoor)	dB(A)	33-27-24-21	34-28-24-21	45-32-26-22	46-37-28-25
	Heating (Indoor)		36-31-24-21	39-31-24-21	42-37-25-22	45-37-31-27
Silent mode sound pressure level	Cooling (Outdoor)	dB(A)	42	41	45	43
	Heating (Outdoor)		45	42	43	45
Airflow	Cooling (Indoor)	l/s	130-93-88-80	132-100-88-83	190-107-90-83	188-130-100-88
	Heating (Indoor)		163-105-83-75	183-108-85-77	213-157-102-80	225-170-125-103
External dimensions (HxWxD)	Indoor	mm	294x798x229			
	Outdoor		540x780(+62)x290	595x780(+62)x290		640x800(+71)x290
Net weight	Indoor	kg	9.5			
	Outdoor		31.5	35		41
Refrigerant piping	Liquid line	mm	Ø6.35			
	Gas line		Ø9.52		Ø12.7	
	Connection method		Flare connection			
Refrigerant R410A	Quantity	kg	0.75	1.15		1.35
	Pre charged to pipe length		15			
Clean filter	Allergen Clear & Photocatalytic Washable Deodorizing Filter					

SRK-ZMA-S

Reverse Cycle Inverter

HyperInverter

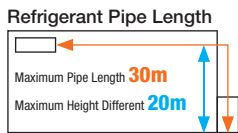


SRK63ZMA-S
SRK92ZMA-S

SRK63ZMA-S • SRK71ZMA-S • SRK80ZMA-S • SRK92ZMA-S



Most SRK71ZMA-S series can be selected for use with the SCM Multi system outdoor unit.



SRC63ZMA-S • SRC71ZMA-S



SRC80ZMA-S



SRC92ZMA-S

FUNCTIONS

Filter	Comfort	Air Flow
Convenience & Economy	Maintenance	Others

Indoor		SRK63ZMA-S	SRK71ZMA-S	SRK80ZMA-S	SRK92ZMA-S
Outdoor		SRC63ZMA-S	SRC71ZMA-S	SRC80ZMA-S	SRC92ZMA-S
Power supply		1 Phase 220~240V 50Hz			
Capacity	Cooling T1	6.3 (2.15~7.1)	7.1 (2.15~8.0)	8.0 (2.15~9.0)	9.2 (2.4~10.0)
	Heating H1	7.1 (1.7~9.5)	8.0 (1.6~10.0)	9.0 (1.7~10.5)	10.0 (2.2~11.2)
	Heating H2	7.52	7.70	8.10	9.40
Input	Cooling T1	1.76 (0.54~2.30)	2.16 (0.54~2.80)	2.35 (0.54~3.00)	2.54 (0.47~3.07)
	Heating H1	1.79 (0.37~3.30)	2.14 (0.37~3.40)	2.57 (0.37~3.65)	2.84 (0.43~3.76)
Energy label	Cooling T1	2.5	2	2	2.5
	Heating H1	3	2.5	2	2
EER	Cooling T1	3.58	3.29	3.4	3.62
COP	Heating H1	3.97	3.74	3.5	3.52
	Heating H2	2.43	2.49	2.64	2.8
Sound power level (JIS C9612)	Cooling (Outdoor)	62	66	69	67
	Heating (Outdoor)	63	63	70	67
Sound pressure level (JIS C9612)	Cooling (Indoor)	47-43-37-26	49-45-39-26	51-47-41-26	
	Heating (Indoor)	44-41-36-33	46-43-38-35	48-45-40-37	49-46-42-38
Silent mode sound pressure level	Cooling(Outdoor)	45	45	48	49
	Heating(Outdoor)	43	44	50	
Airflow	Cooling (Indoor)	308-267-217-133	325-292-233-133	350-308-250-133	
	Heating (Indoor)	342-300-242-208	358-325-258-233	392-342-283-250	
External dimensions (HxWxD)	Indoor	318x1098x248			
	Outdoor	750x880(+88)x340		845x970x370	1300x970x370
Net weight	Indoor	16			
	Outdoor	57		63	92
Refrigerant piping	Liquid line	Ø6.35			
	Gas line	Ø15.88			
	Connection method	Flare connection			
Refrigerant R410A	Quantity	1.8		2.2	3.15
	Pre charged to pipe length	15			
Clean filter	Allergen Clear & Photocatalytic Washable Deodorizing Filter				

SRK-ZMXA-S

Reverse Cycle Inverter



SRK20ZMXA-S • SRK25ZMXA-S • SRK35ZMXA-S • SRK50ZMXA-S • SRK60ZMXA-S



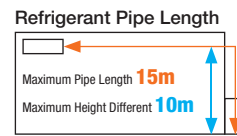
SRC20ZMXA-S • SRC25ZMXA-S
SRC35ZMXA-S



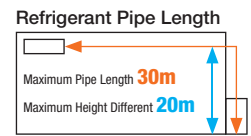
SRC50ZMXA-S • SRC60ZMXA-S



SRK-ZMXA series can be selected for use as indoor units in combination with the SCM Multi system outdoor unit.



SRK20ZMXA-S • SRK25ZMXA-S
• SRK35ZMXA-S



SRC50ZMXA-S • SRC60ZMXA-S

FUNCTIONS

Filter

Comfort

Air Flow

Convenience & Economy

Maintenance

Others

Indoor			SRK20ZMXA-S	SRK25ZMXA-S	SRK35ZMXA-S	SRK50ZMXA-S	SRK60ZMXA-S
Outdoor			SRC20ZMXA-S	SRC25ZMXA-S	SRC35ZMXA-S	SRC50ZMXA-S	SRC60ZMXA-S
Power supply			1 Phase 220~240V 50Hz				
Capacity	Cooling T1	kW	2.0 (0.9~3.1)	2.55 (0.9~3.2)	3.5 (0.9~4.1)	5.0 (1.1~5.8)	6.0 (1.1~6.8)
	Heating H1		2.5 (0.9~4.3)	3.13 (0.9~4.7)	4.3 (0.9~5.1)	6.0 (0.6~7.7)	6.8 (0.6~8.2)
	Heating H2		N/A	3.79	4.04	6.26	6.28
Input	Cooling T1	kW	0.35 (0.19~0.70)	0.49 (0.19~0.82)	0.845 (0.19~1.01)	1.30 (0.20~1.80)	1.86 (0.20~2.50)
	Heating H1		0.45 (0.23~1.00)	0.595 (0.23~1.12)	0.96 (0.23~1.35)	1.36 (0.20~2.43)	1.67 (0.20~2.70)
Energy label	Cooling T1	Stars	6	5	3	3	1.5
	Heating H1		5.5	5.5	3.5	4	3.5
EER	Cooling T1		5.71	5.20	4.14	3.85	3.23
COP	Heating H1		5.56	5.26	4.48	4.41	4.07
	Heating H2		N/A	3.46	3.22	3.21	2.48
Sound power level (JIS C9612)	Cooling(Outdoor)	dB(A)	60	60	63	63	64
	Heating(Outdoor)		59	60	62	63	64
Sound pressure level (JIS C9612)	Cooling(Indoor)	dB(A)	39-30-24-21	41-31-25-22	43-33-25-22	47-40-27-25	51-41-29-25
	Heating(Indoor)		38-33-25-21	41-34-27-21	42-35-27-22	48-40-33-26	48-41-34-27
Silent mode sound pressure level	Cooling(Outdoor)	dB(A)	40	41	45	45	45
	Heating(Outdoor)		42	42	43	45	45
Airflow	Cooling(Indoor)	l/s	192-133-105-83	208-150-105-83	225-158-105-83	225-183-133-116	242-208-142-117
	Heating(Indoor)		200-158-117-105	217-167-125-105	233-183-133-108	283-241-175-133	292-250-183-142
External dimensions (HxWxD)	Indoor	mm	309x890x220				
	Outdoor		595x780(+62)x290			640x800(+71)x290	
Net weight	Indoor	kg	13.5				
	Outdoor		35				45.5
Refrigerant piping	Liquid line	mm	Ø6.35				
	Gas line		Ø9.52			Ø12.7	
	Connection method		Flare connection				
Refrigerant R410A	Quantity	kg	1.2			1.5	
	Pre charged to pipe length		15				
Clean filter	Allergen Clear & Photocatalytic Washable Deodorizing Filter						

SRF-ZMXA-S

Reverse Cycle Inverter

HyperInverter



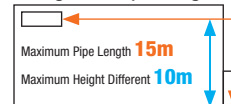
SRF25ZMXA-S • SRF35ZMXA-S • SRF50ZMXA-S



SRC25ZMXA-S • SRC35ZMXA-S

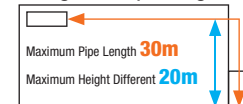
SRC50ZMXA-S

Refrigerant Pipe Length



SRF25ZMXA-S • SRF35ZMXA-S

Refrigerant Pipe Length



SRF50ZMXA-S



All SRF-ZMXA series can be selected for use as indoor units in combination with the SCM Multi system outdoor unit.

FUNCTIONS



Indoor		SRF25ZMXA-S	SRF35ZMXA-S	SRF50ZMXA-S	
Outdoor		SRC25ZMXA-S	SRC35ZMXA-S	SRC50ZMXA-S	
Power supply		1 Phase 220~240V 50Hz			
Capacity	Cooling T1	kW	2.5 (0.9~3.2)	3.5 (0.9~4.1)	5.0 (1.1~5.2)
	Heating H1		3.4 (0.9~4.7)	4.5 (0.9~5.1)	6.0 (0.6~6.9)
	Heating H2		3.55	3.92	5.91
Input	Cooling T1	kW	0.521 (0.19~0.82)	0.890 (0.19~1.26)	1.390 (0.20~1.70)
	Heating H1		0.723 (0.23~1.2)	1.124 (0.23~1.43)	1.540 (0.20~2.15)
Energy label	Cooling	Stars	4	2.5	2.5
	Heating		4	3	3
EER	Cooling T1	4.80	3.93	3.60	
COP	Heating H1	4.70	4.00	3.90	
	Heating H2	3.17	2.96	3.03	
Sound power level (JIS C9612)	Cooling (Outdoor)	dB(A)	60	63	63
	Heating (Outdoor)		60	62	62
Sound pressure level (JIS C9612)	Cooling (Indoor)	dB	40-32-29-26	41-34-33-28	46-42-35-32
	Heating (Indoor)		40-35-33-28	41-36-35-31	47-41-39-33
Airflow	Cooling (Indoor)	L/s	150-126-111-96	153-130-121-106	192-160-123-110
	Heating (Indoor)		175-136-128-110	178-138-135-123	200-167-157-127
External dimensions (HxWxD)	Indoor	mm	600x860x238		
	Outdoor		595x780(+62)x290		640x800(+71)x290
Net weight	Indoor	kg	18	19	
	Outdoor		38		45
Refrigerant piping	Liquid line	mm	Ø6.35		
	Gas line		Ø9.52		Ø12.7
	Connection method		Flare connection		
Refrigerant R410A	Quantity	kg	1.2		1.5
	Pe charged to pipe length		15		
Clean filter	Enzyme & Photocatalytic Washable Deodorizing Filter				

SRK-YL-S

Cool Only Inverter

Hyper Inverter



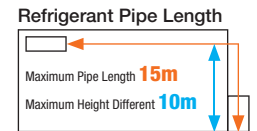
SRK10YL-S • SRK13YL-S • SRK18YL-S



SRC10YL-S • SRC13YL-S



SRC18YL-S



SRK10YL-S • SRK13YL-S • SRK18YL-S

FUNCTIONS

- Filter:** Enzyme Filter, SUN Filter
- Comfort:** Auto, HI POWER
- Air Flow:** 3D Auto, Auto Flap, Air Scroll, Memory, UP/DOWN, Lateral Swing, Positioning of installation
- Convenience & Economy:** On Timer, OFF Timer, 24h Timer Off, DRY, Economy, Sleep
- Maintenance:** Self Diagnostic, Detachable
- Others:** Back-up Switch, Auto Restart, 24h-ON, Luminous

Indoor			SRK10YL-S	SRK13YL-S	SRK18YL-S
Outdoor			SRC10YL-S	SRC13YL-S	SRC18YL-S
Power supply			1 Phase 220~240V 50Hz		
Capacity	Cooling T1	kW	2.5 (1.0~2.7)	3.5 (1.0~3.7)	5.0 (1.6~5.5)
Input	Cooling T1		0.67 (0.21~0.88)	0.98 (0.21~1.24)	1.56 (0.40~2.20)
Energy label	Cooling T1	Stars	2.5	2.5	1.5
EER	Cooling T1		3.73	3.57	3.21
Sound power level (JIS C9612)	Cooling(Outdoor)	dB(A)	59	62	67
Airflow	Cooling(Indoor)	L/s	133-103-75	167-113-77	200-127-78
External dimensions (HxWxD)	Indoor	mm	268x790x213		
	Outdoor		540x780(+62)x290		595x780(+62)x290
Net weight	Indoor	kg	8.5		9.5
	Outdoor		29	32	35
Refrigerant piping	Liquid line	mm	Ø6.35		
	Gas line		Ø9.52		Ø12.7
	Connection method		Flare connection		
Refrigerant R410A	Quantity	kg	0.7	0.95	1.3
	Pre charged to pipe length	m	15		
Clean filter	Allergen Clear & Photocatalytic Washable Deodorizing Filter				

SRK-YMA-S

Cool Only Inverter

HyperInverter

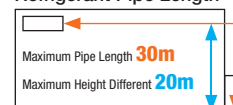


SRK24YMA-S



SRC24YMA-S

Refrigerant Pipe Length



SRK24YMA-S

FUNCTIONS

Filter

- Enzyme Filter
- SUN Filter

Comfortable

- Auto
- HI POWER

Comfortable Air Flow

- 3D Auto
- Auto Flap
- Air Scroll
- Memory
- UP/DOWN
- Lateral Swing
- Positioning of installation

Convenience & Economy

- On Timer
- OFF Timer
- Weekly timer
- 24h Timer
- On
- Off
- DRY
- Silent
- Economy
- Sleep

Maintenance

- Self Diagnostic
- Detachable

Others

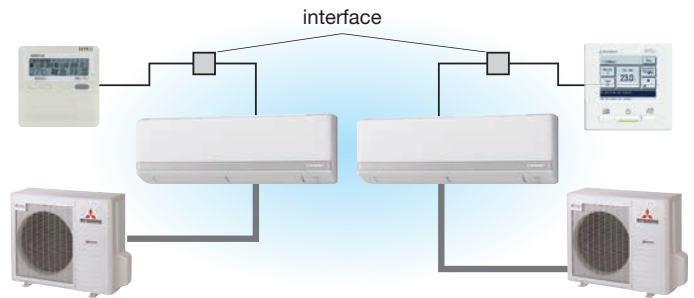
- Back-up Switch
- Auto Restart
- 24h ON
- Luminous

Indoor			SRK24YMA-S
Outdoor			SRC24YMA-S
Power supply			1 Phase 220~240V 50Hz
Capacity	Cooling T1	kW	7.1 (2.15~8.0)
Input	Cooling T1		2.16 (0.54~2.80)
Energy label	Cooling T1	Stars	2
EER	Cooling T1		3.29
Sound power level (JIS C9612)	Cooling(Outdoor)	dB(A)	66
Sound pressure level (JIS C9612)	Cooling Indoor	dB(A)	49-45-39-26
Silent mode sound pressure	Cooling Outdoor	dB(A)	45
Airflow	Cooling(Indoor)	L/s	325-292-233-133
External dimensions (HxWxD)	Indoor	mm	318x1098x248
	Outdoor		750x880(+88)x340
Net weight	Indoor	kg	16
	Outdoor		56
Refrigerant piping	Liquid line	mm	Ø6.35
	Gas line		Ø15.88
	Connection method		Flare connection
Refrigerant R410A	Quantity	kg	1.8
	Pre charged to pipe length	m	15
Clean filter	Allergen Clear & Photocatalytic Washable Deodorizing Filter		

Control Options.

Wired remote control can be connected

Model	Interface	Remote Control
SRK20~50ZMA-S SRK63~92ZMA-S SRK20~60ZMXA-S SRK10~18YL-S SRK24YMA-S	SC-BIKN-EA	RC-E5 RC-EX1A



RC-EX1A

Advanced wired remote control

The RC-EX1A controller enables extensive access to service and maintenance data combined with easy to use full dot LCD back light display. All settings are changed by tapping the touch screen panel.

- **Energy management:**
Peak cut timer. Home Leave Mode. Up to 8 daily operation settings programmable.
- **Comfort:**
Hi power operation. Economy operation. External ventilation interlock.
- **Convenience:**
Multi language settings. LCD contrast setting. Outdoor silent mode.
- **Service:**
Error code display. Operation data display.
- **IU Back up Function:**
(I/U Rotation, Capacity Back-up, Error Back-up) Where 2 sets of single unit (1 outdoor unit + 1 indoor unit) are connected to one R/C.



RC-E5

Wired remote control with weekly timer (option)

The RC-E5 controller enables extensive access to service and maintenance technical data combined with easy to use functions and a clear LCD display.

- Weekly timer function as standard
- Timer operation
- Run hour metres to facilitate maintenance checking
- Room temperature controlled by the remote control sensor
- Changeable set temperature ranges



Functions.

Filter



Allergen Clear Filter

The filter breaks down the pollen, lice, and all allergens that live on cat skins, etc. and deactivates them.



Photocatalytic Washable Deodorizing Filter

It keeps air fresh by deodorizing the molecules causing odor. The deodorizing ability can be easily restored simply by cleaning and exposing the filter to the sunlight.



Natural Enzyme Filter

Enzymes used in the filter are naturally occurring lytic enzymes which attack cell walls of microorganisms trapped on the filter and destroy them.



Allergen System

Suppresses the influence of the allergen caught by the filter.



Self Clean

The indoor fan continues to operate on ultra low speed to dry the unit.

Comfortable Functions



Fuzzy Auto Mode

Automatically the unit determines its operating mode and temperature setting based on a fuzzy calculation and adjusts the inverter frequency.



Automatic Operation

The air conditioner automatically selects from heating, cooling or dry operation.



"HI POWER" Operation

The unit can operate continuously in HI POWER mode for 15 minutes. This mode is used to reach the desired temperature quickly.



Three "Hot" System

'Hot start' enables the unit to begin heating operation quickly. 'Hot spurt' is a fast heating system that works to increase the temperature setting by two degrees. 'Hot keep' is used during the automatic defrost cycle to prevent cool air being circulated. These three operational control systems help ensure comfortable and efficient heating.

Comfortable Air Flow Functions



3D Auto

You can choose the best heating or cooling pattern with the touch of a button.



Auto Flap Mode

The unit automatically selects the optimal angle whatever the operation mode.



Air Scroll

The swing of the flap causes the air flow to spiral and the breeze to reach all corners of the room.

COOLING & DRY
Horizontal blowing

HEATING
Slant forward blowing

COOLING & DRY

Thick line — : moves quickly
Thin line — : moves slowly

HEATING

Thick line — : moves quickly
Thin line — : moves slowly



Memory Flap

While the flap is swinging it can be stopped at any angle. The flap returns to this position next time the unit starts.



Up/Down Flap Swing

The Up/Down flap can be adjusted to the preferred angle anywhere between horizontal and perpendicular.



Lateral Swing

The louver swings from right to left automatically. Louver angle can be fixed in any desired position.



Air Outlet Selection

Both lower and upper air outlets and upper air outlet can be selected. (SRF models only)

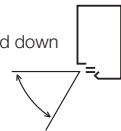


Positioning of Installation

You can set the left-right air flow directions when you install the air conditioner near the side wall by remote controller operation.

SWING FLAP

Flap moves up and down continuously.



Convenience & Economy Functions



On Timer

This enables the operation to start a little earlier so that the room is near to the set temperature at ON time.



24-hour On/Off Programmable Timer

By combining a start timer with a stop timer you can register two timer operations a day. Once set timers will start or stop the system at the specified time of the day repeatedly.



Economy Mode

The unit achieves effective energy saving operation while still keeping a comfortable cooling or heating operation.



OFF Timer

The unit stops at the specified time.



Dry Dehumidify

The unit dehumidifies the room by intermittent cooling operation.



Sleep Mode

The room temperature is automatically controlled during the set sleep mode period ensuring that the room temperature will not get too hot or cold.



Weekly Timer

Up to 4 programs with timer operation (ON-TIMER/OFF-TIMER) are available for each day of the week. MAX 28 programs per week can be set.



Silent Operation

The sound level of outdoor units is at least 3dB(A) lower than the nominal level.



Night Setback

During cold seasons, room temperatures can be maintained at a comfortable level even while the room is unattended. The air conditioner keeps the temperature at 10°C.

Maintenance & Prevention Functions



Microcomputer-Operated Defrosting

This function automatically eliminates frost and helps minimize excessive operation in other modes.



Detachable Indoor Air Inlet Panel

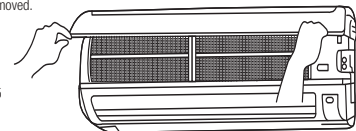
The air inlet panel on the indoor unit opens and closes easily making filter cleaning simple. The suction panel can be easily removed.



Self-Diagnostic Function

If the air conditioner malfunctions an internal microcomputer runs a self diagnosis. Inspection and repair should be performed by authorized dealers.

When removing the air inlet panel for internal cleaning or other reasons, open the grill by 65 degrees and then pull it to the side.



Others



Back-up Switch

On the indoor unit there is a back up on/off switch. The system will operate in the previous mode.



24-hour ION

The air conditioner body has a tourmaline coated sheet. Negative ions (2,500 -3,000/cc) are generated when the air conditioner is not running, allowing you to experience them without incurring any electrical cost.



Auto Restart Function

Power blackout auto restart function records the operational status of the air conditioner immediately prior to being switched off by a power supply interruption. The unit automatically resumes operations in the mode and temperature set point after the power has been restored.



Luminous Button

With wireless "Luminous" remote controls that even "glow in the dark", it is possible to operate all desired functions of the unit with the click of a button.

Before starting use

Heating performance

The heating performance values (kW) described in catalog are the values obtained by operating at an outdoor temperature of 7C and indoor temperature of 20C as set forth in the ISO Standards. As the heating performance decreases as the outdoor temperature drops, if the outdoor temperature is too low and the heating performance is insufficient, use other heating appliances as well.

Indication of sound values

The sound values are the values (A scale) measured in a chamber such as an anechoic chamber following the ISO Standards. In the actual installation state, the value is normally larger than the values given in the catalog due to the effect of surrounding noise and echo. Take this into consideration when installing.

Use in oil atmosphere

Avoid installing this unit in an atmosphere where oil scatters or builds up, such as in a kitchen or machine factory.

If the oil adheres to the heat exchanger, the heat exchanging performance will drop, mist may be generated, and the synthetic resin parts may deform and break.

Use in acidic or alkaline atmosphere

If this unit is used in acidic atmosphere such as hot spring areas having high level of sulfuric gases or in alkaline atmosphere including ammonia or calcium chloride, places where the exhaust of the heat exchanger is sucked in, or at coastal areas where the unit is subject to salt breezes, the outer plate or heat exchanger, etc., will corrode. Please ask a dealer or specialist when you use an air conditioner in places differing from a general atmosphere.

Use in places with high ceilings

If the ceiling is high, install a circulator to improve the heat and air flow distribution when heating.

Refrigerant leakage

The refrigerant (R410A) used for Air conditioner is non-toxic and nonflammable in its original state.

However, in consideration of a state where the refrigerant leaks into the room, measures against refrigerant leaks must be taken in small rooms where the tolerable level could be exceeded. Take measures by installing ventilation devices, etc.

Use in snowy areas

Take the following measures when installing the outdoor unit in snowy areas.

Snow prevention

Install a snow-prevention hood so that the snow does not obstruct the air intake port or enter and freeze in the outdoor unit.

Snow piling

In areas with heavy snow fall, the piled snow could block the air intake port. In this case, a frame that is 50cm or higher than the estimated snow fall must be installed underneath the outdoor unit.

Automatic defrosting device

If the temperature is low, and the humidity is high, frost will stick to the heat exchanger of the outdoor unit. If use is continued, the heating performance will drop.

The "Automatic defrosting device" will function to remove this frost. After heating for approx, three to ten minutes, it will stop, and the frost will be removed. After defrosting, hot air will be blown again.

Servicing the air-conditioner

After the air-conditioner is used for several seasons, dirt will build up in the air-conditioner causing the performance to drop. In addition to regular servicing, we recommend the maintenance contract (charged for) by a specialist.

⚠ Safety Precautions

Air-conditioner usage target

The air-conditioner described in this catalog is a dedicated cooling/heating device for human use.

Do not use it for special applications such as the storage of foodstuffs, animals or plants, computer server rooms, precision devices or valuable art, etc.

This could cause the quality of the items to drop, etc.

Do not use this for cooling vehicles or ships. Water leakage or current leaks could occur.

Before use

Always read the "User's Manual" thoroughly before starting use.

Installation

Always commission the installation to a dealer or specialist. Improper installation will lead to water leakage, electric shocks and fires.

Make sure that the outdoor unit is stable in installation. Fix the unit to stable base.

Usage place

Do not install in places where combustible gas could leak or where there are sparks.

Installation in a place where combustible gas could be generated, flow or accumulate, or places containing carbon fibers could lead to fires.

Only persons that are qualified and licensed are permitted to install and service products that contain refrigerants in Australia, go to www.arctick.org. Suitable access for service must be provided in compliance with industry standards and local regulations.



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ISO9001

Our Air Conditioning & Refrigeration Systems Headquarters is an ISO9001 approved factory for residential air conditioners and commercial-use air conditioners (including heat pumps).



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Certificate number : JGA-0709



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ISO14001

Our Air Conditioning & Refrigeration Systems Headquarters has been assessed and found to comply with the requirements of ISO14001.



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