TURBOJET
ターボジェット
Series

MITSUBISHI HEAVY INDUSTRIES
AIR CONDITIONERS
HEAVY DUTY

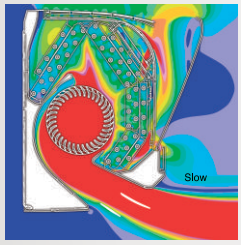
Technology Next

Hyper Inverter Catalog 2018

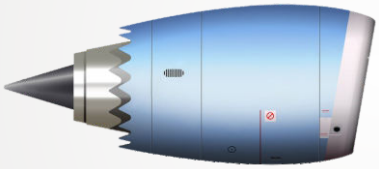
Un-Compromised Cooling

65%* Saving Electricity

Turbo Jet Air Flow Technology
Quiet Air Flow & Long Reach



Fast ←→
Colors in the figure show the air speed.



TURBOJET
ターボジェット

Increase Your Comfort
LONG REACH AIR FLOW

CFD (computational fluid dynamics), used in blade shape design of turbo jet engines, has been applied to the design of air channels in air conditioners to develop the ideal air channel system (air circulation). The air flow of the jets created in this system enable a large volume of air to be blown with minimum power consumption, yet the air flow is uniform, quiet and reaches points a long distance from the blower.

Long Reach Air Flow

Long reach air flow is realized by Jet technology.

SRK100ZR-S6 (3.1 Ton) -> 65 Feet
SRK71ZR-S6 (2.3 Ton) -> 60 Feet
SRK24YRV-S6 (2.2 Ton) -> 60 Feet

POWER FULL
COOLING

High Power Operation

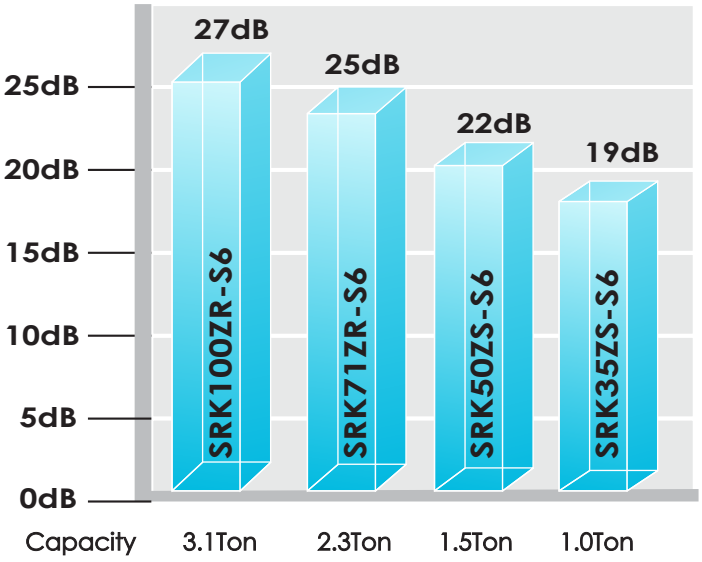
In a cooling operation

This operation mode delivers powerful cool air to cool the room quickly. It blows powerful cool air when you want to be cooled down after bathing or returning home on a hot summer day so that you can enjoy a cool sensation immediately. The air conditioner automatically returns to the previous operation mode in 15 minutes to prevent the room from being cooled excessively.

Silent Operation Indoor Unit

SUPER SILENT IN LOW FAN

19dB



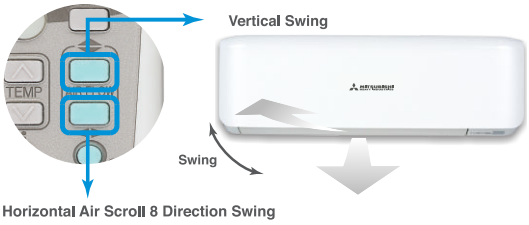
Outdoor Unit

When Silent operation is set, the maximum pressure level of outdoor unit will be 3dB(A) lower than standard nominal level (45dB(A) or less). The compressor speed is set at a lower range than that of nominal operation, operating at 60% of nominal capacity. Maximum fan speed of outdoor unit is set lower than nominal operation.

SRK35ZS-S6, SRK50ZS-S6, SRK35ZSA-W, SRK50ZSA-W, SRK71ZR-S6, SRK100ZR-S6, SRK24YRV-S6

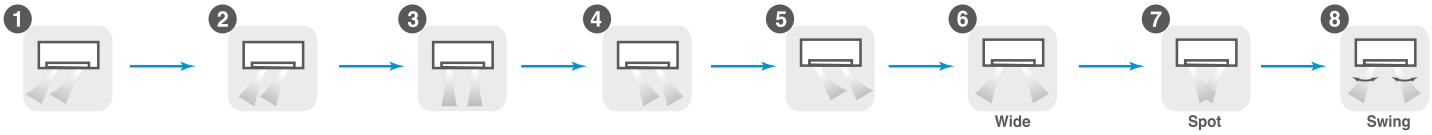
Comfort & Convenience

3D AUTO is one touch programmed and three motors (one vertical working motor + two horizontal working motors) make three independent air flow controls. The air flow is uniform and quiet and reaches at long distance points from the blower.



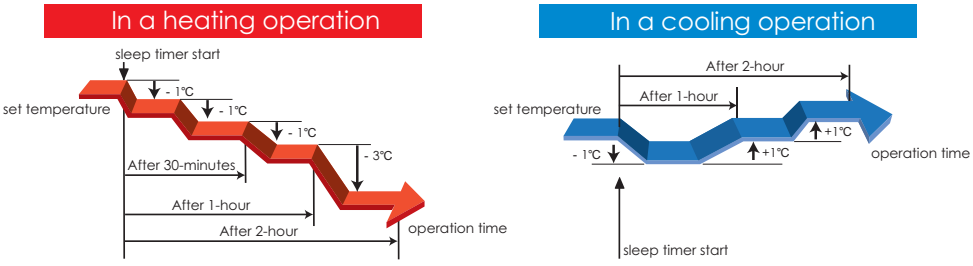
MANUAL SETTING

By individual control of right and left part of louver, air flow direction from the right part and the left part are controlled individually. Setting the most preferable air flow direction and determining whether direct air flow is required or not at the same time minimizing of energy loss and economical operation has realized.



Sleep Timer

Too much cooling/heating is not necessary when people go to sleep. This function achieves moderate cooling/heating by adjusting its capacity and more energy saving as well.



Night Setback Operation

In Heating Mode

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

Feature Guide

Comfortable Air Flow Functions

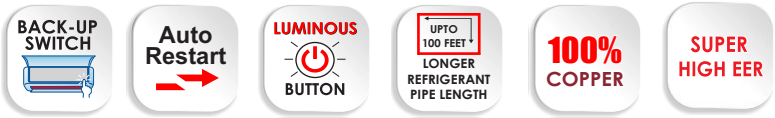
Clean Air

Maintenance

Comfortable Function

Convenient & Economy Functions

Others



Easy Controls

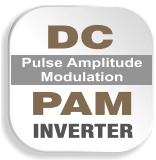
SRK35ZS-S6, SRK50ZS-S6
SRK35ZSA-W, SRK50ZSA-W
SRK71ZR-S6, SRK100ZR-S6
SRK24YRV-S6

EEV = Electronic Expansion Valve

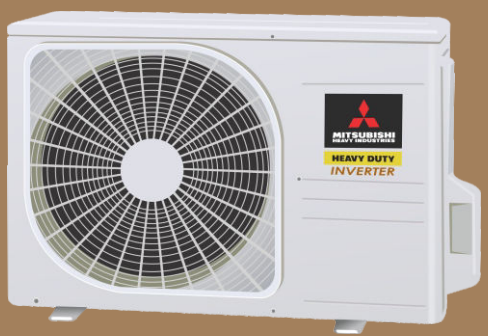
New Inverter Vector Control

New Inverter Control has applied new advanced technology of Vector control and has realized high efficiency.

- Smooth operation from low speed to high speed
- Energy efficiency is further improved in low speed range.
- Smooth Sine Voltage Wave form are attained



Big Outdoor Unit



DC PAM Inverter

The new MHI Hyper Inverter Airconditioners uses the Technology Next DC PAM Inverter Compressor with Vector Control for delivering very high energy efficiency for Electricity Saving upto 65%. Hyper Inverter uses a combination of PAM (Pulse Amplitude Modulation) + Vector Control for smooth transition from the low to high speed and vice versa.

Hyper Inverter uses Embedded Microprocessor – Micro Chip having 1,00,000 plus, permutation & combination of controlling the flow of refrigerant using Motorized EEV (Electronic Expansion Valve) corresponding to the speed of the DC Variable Speed compressor in accordance to the indoor temperature requirement with respect to the ambient temperature. This microprocessor electronically regulates the speed of the variable speed compressor & the flow of refrigerant thru EEV to give optimum refrigeration cycle to deliver highest cooling efficiency at minimum electricity consumption there by giving Electricity Saving upto 65% over Conventional AC. Hyper Inverter AC gives wide range of capacity deliverance from 10% to 120% using DC PAM Inverter Technology. Hyper Inverter AC compressor runs at 120% of its speed / capacity in first 15 minutes to achieve the desired temperature and once the set temperature is reached, it regulates the speed of compressor at 20% of its actual capacity thereby resulting into Electricity Saving upto 65% over to Conventional AC.

Features Comparison

SL NO.	Features	SRK10YL-S / SRK13YL-S SRK18YL-S / SRK24YRV-S6	SRK35ZS-S6 / SRK50ZS-S6 SRK71ZR-S6 / SRK100ZR-S6	SRK35ZSA-W SRK50ZSA-W
1	DC PAM Inverter	✓	✓	✓
2	High Power Cooling	✓	✓	✓
3	Jet Air Flow	✓	✓	✓
4	3D Air	✓	✓	✓
5	3D Auto	✓	✓	✓
6	Auto Flap	✓	✓	✓
7	Memory	✓	✓	✓
8	Up/Down (Horizontal Louver)	✓	✓	✓
9	Lateral Swing (Vertical Louver)	✓	✓	✓
10	Position of Installation	✓	✓	✓
11	Economy Cooling	✓	✓	✓
12	Front Panel Detachable	✓	✓	✓
13	Enzyme Filter	✓	✓	✓
14	Solar Filter (Deodorizing)	✓	✓	✓
15	Anti Micro Bial Fan	✓	✓	✓
16	Self Clean Operation		✓	✓
17	Allergen Filter	✓	✓	✓
18	Auto Mode	✓	✓	✓
19	Fuzzy Logic	✓	✓	✓
20	Night Setback		✓	✓
21	Child lock		✓	✓
22	Back-Up Switch	✓	✓	✓
23	Auto Restart	✓	✓	✓
24	Luminous Button	✓	✓	✓
25	100% Copper	✓	✓	✓
26	EEV	✓	✓	✓
27	Self Diagnostic	✓	✓	✓
28	Dry Mode	✓	✓	✓
29	Off timer	✓	✓	✓
30	Sleep Mode	✓	✓	✓
31	MC (Micro Computer)	✓	✓	✓
32	Silent Mode (Ulo Fan Speed)		✓	✓
33	Super Silent in Low Fan	✓	✓	✓
34	R410A	✓		
35	R32		✓	✓
36	Weekly Timer		✓	✓

Hyper Inverter

ECO SMART

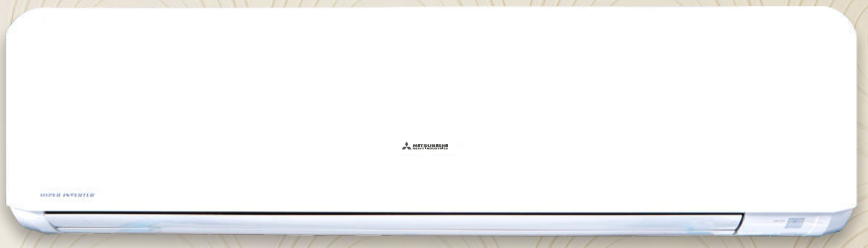
Cooling Only

TURBOJET ターボジェット

Series

2.2 Ton

47 inch



SRK24YRV-S6

SRK10YL-S/ SRK13YL-S / SRK18YL-S

Super High Efficiency
Excellent Energy Saving

SPECIFICATIONS

	ECO SMART - HYPER INVERTER (R410A) - COOLING ONLY					
MODEL	Unit		SRK10YL-S	SRK13YL-S	SRK18YL-S	SRK24YRV-S6
	Indoor Unit		SRK10YL-S	SRK13YL-S	SRK18YL-S	SRK24YRV-S6
	Outdoor Unit		SRC10YL-S	SRC13YL-S	SRC18YL-S	SRC24YRV-S6
Maximum Tonnage**			0.80	1.1	1.6	2.2
BEE STAR RATING - 2018			5 Star	5 Star	4 Star	5 Star
Compressor Type			Super Tropical - DC PAM Inverter - Return Cooled - Rotary			Twin Rotary
VFD - Variable Frequency Drive			Inverter Vector Control Technology for Higher Efficiency			
Minimum Compressor RPM			7 ~ 15 RPM - Using Vector Control Technology			
Refrigerant Volume Control Using			Motorized Electronic Expansion Valve for Variable Refrigerant Flow			
LCD Remote Control (iPM Controller)			iPM (Intelligent Power Module)			
Power Source			1 Phase, 220 / 230 V, 50 Hz			
Maximum Cooling Capacity at**	120% Load	BTU/hr	9861	13252	19609	26815
Rated Cooling Capacity at	100% Load	BTU/hr	9247	12454	18425	25198
Rated Cooling Capacity at	50% Load	BTU/hr	5203	6995	9646	13460
Maximum Cooling Capacity at**	120% Load	Watts	2890	3884	5747	7859
Rated Cooling Capacity at	100% Load	Watts	2710	3650	5400	7385
Rated Cooling Capacity at	50% Load	Watts	1525	2050	2827	3945
Rated Power Consumption at	100% Load	watts	670	975	1560	2000
Rated Power Consumption at	50% Load	watts	253	369	582	772
Rated EER / COP at	100% Load	W/w	4.3	3.7	3.5	3.7
Rated EER / COP at	50% Load	W/w	6.0	5.6	4.9	5.1
Rated Indian Seasonal Energy Efficiency		ISEER	5.41	5.00	4.49	4.75
Current (Minimum ~ Maximum)**		A	0.5 ~ 3.0	0.65 ~ 4.3	0.87 ~ 7.0	1.52 ~ 9.0
Dimension (H x W x D)	Indoor Unit	mm	268 x 790 x 224	268 x 790 x 224	268 x 790 x 224	339 x 1197 x 262
	Outdoor Unit	mm	540 x 780(+62) x 290	540 x 780(+62) x 290	595 x 780(+62) x 290	750 x 880(+88) x 340
Weight	Indoor Unit	Kgs	9.0	9.0	10.0	18.5
	Outdoor Unit	Kgs	29	32	35	61
Cooling Coil Row	Indoor Unit	No.s	2	3	3	3
Air Flow (CMH)	Indoor Unit	m3/hr	600	790	1000	1450
Long Reach Air Flow Upto	Indoor Unit	Feet	15	15	17	60
Self Diagnosis Function	Indoor Unit		Yes	Yes	Yes	Yes
Sound Level (H/M/L)	Indoor Unit	dB	39 / 30 / 22	39 / 30 / 22	45 / 38 / 26	41/38/34/25(Silent Mode)
Louver Swing	Indoor Unit		3D + 3D AUTO			
Special Filter	Indoor Unit		Enzyme + Solar + Anti Bacterial			
Fan	Indoor Unit		Anti - Micro Bial Fan			
DC Fan Motor Speed	Indoor Unit		Auto / Powerful / High / Medium / Low / Dry/ (Ultra Low-in-silent mode in SRK24YRV-S6)			
Refrigerant			R410A			
Refrigerant Injection in Coil			4 Point - Multi Port			
Refrigerant Piping Thickness:18Gauge(1mm)	Liquid Line	mm	6.35 (1/4")			
	Gas Line	mm	9.52 (3/8")	9.52 (3/8")	12.7 (1/2")	15.88 (5/8")
Main Power Supply to	Outdoor Unit		2.5 mm^2 x 3 cores (including Earthing)			
Connecting wiring	B/w IDU & ODU		2.5 mm^2 x 4 cores (including Earthing)			
Area Coverage ***		Sq.Feet	80 ~ 140	130 ~ 170	150 ~ 200	250 ~ 450

DC PAM Inverter Twin Rotary Compressor

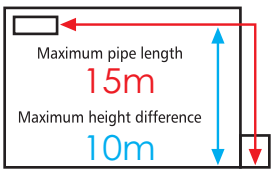
Mitsubishi Heavy Duty AC of 2.0 ton & above capacity units uses DC PAM Inverter Twin Rotary Compressor which performs high efficiency operation under the wide range capacity variance from low 10% to high 120% of its nominal capacities using DC PAM Technology .

Besides low vibration & low sound level, high efficiency is achieved by the optimization of mechanical parts dimension and by the application of high power Neodymium motor.

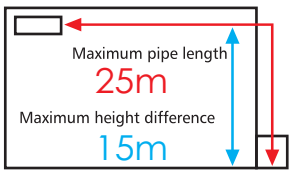
Advantages:

- Neodymium motor
- 1.5 times Higher compression ratio
- Wider range of operation
- Lower vibration & noise
- Zero Starting currents
- Improved efficiency with 0.1Hz step up
- Higher efficiency

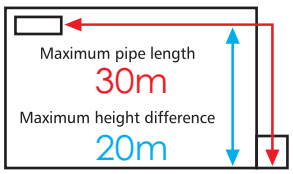
Refrigerant Pipe Length



SRK10YL-S / SRK13YL-S



SRK18YL-S



SRK24YRV-S6

SRK10YL-S
SRK13YL-S
SRK18YL-S

SRK24YRV-S6

** Under Standard Installation & Lab Test Condition

*** Check for design condition and corresponding parameters like roof / window exposed to direction sunlight, of the area to be Air- conditioned.
Because of our policy of continuous improvement, we reserve the right to make changes in all specifications without any prior notice

ISEER = INDIAN SEASONAL ENERGY EFFICIENCY RATIO

Hyper Inverter

ECO SMART

Cooling + Heating

TURBOJET
ターボジェット
Series

3.1 Ton
2.3 Ton

47 inch

SRK71ZR-S6, SRK100ZR-S6

SRK35ZS-S6, SRK50ZS-S6

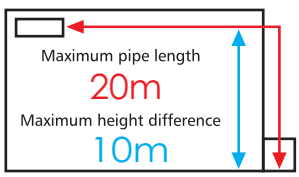
Super High Efficiency
Excellent Energy Saving

Elegant Timeless Design

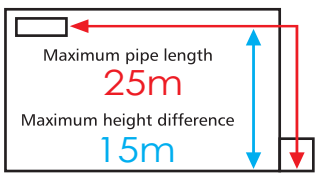
SPECIFICATIONS

			ECO SMART - HYPER INVERTER (R410A) - COOLING + HEATING			
MODEL	Unit		SRK35ZS-S6	SRK50ZS-S6	SRK71ZR-S6	SRK100ZR-S6
	Indoor Unit		SRK35ZS-S6	SRK50ZS-S6	SRK71ZR-S6	SRK100ZR-S6
	Outdoor Unit		SRC35ZS-S6	SRC50ZS-S6	SRC71ZR-S6	FDC100VNP
Maximum Tonnage**	(Cooling / Heating)		1.1 / 1.35	1.6 /1.90	2.3 / 2.85	3.1 / 3.3
BEE STAR RATING -2018			5 STAR	5 STAR	5 STAR	NOT APPLICABLE *
Compressor Type			Super Tropical - DC PAM Inverter - Return Cooled - Rotary		Super Tropical - DC PAM Inverter - Return Cooled -Twin Rotary	
VFD - Variable Frequency Drive			Inverter Vector Control Technology for Higher Efficiency			
Minimum Compressor RPM			7 ~ 15 RPM - Using Vector Control Technology			
Refrigerant Volume Control Using			Motorized Electronic Expansion Valve for Variable Refrigerant Flow			
LCD Remote Control (iPM Controller)			iPM (Intelligent Power Module)			
Power Source			1 Phase, 220 / 230 V, 50 Hz			
Maximum Cooling Capacity at	120% Load	BTU/hr	12966	18766	27272	39579
Rated Cooling Capacity at	100% Load	BTU/hr	12000	17231	25436	37208
Rated Cooling Capacity at	50% Load	BTU/hr	5920	8615	12966	18664
Maximum Cooling Capacity at	120% Load	Watts	3800	5500	7933	11600
Rated Cooling Capacity at	100% Load	Watts	3517	5050	7455	10905
Rated Cooling Capacity at	50% Load	Watts	1735	2525	3800	5470
Rated Power Consumption at	100% Load	watts	980	1375	2000	3090
Rated Power Consumption at	50% Load	watts	327	485	725	1500
Rated EER/ COP at	100% Load	W/w	3.6	3.7	3.7	3.5
Rated EER/ COP at	50% Load	W/w	5.3	5.2	5.2	3.6
Rated Indian Seasonal Energy Efficiency		ISEER	4.75	4.75	4.85	3.83#
Current (Minimum ~ Maximum)**		A	0.70 ~ 4.5	1.30 ~ 6.5	1.40 ~ 9.0	3.0 ~ 14.0
Maximum Heating Capacity**		BTU/hr	16378	22519	34200	39238
Minimum Heating Capacity		BTU/hr	3071	5459	6825	10918
Rated Heating Capacity		BTU/hr	13648	19790	27300	38214
Maximum Heating Capacity**		Watts	4800	6600	10023	11500
Minimum Heating Capacity		Watts	900	1600	2000	3200
Rated Heating Capacity		Watts	4000	5800	8000	11200
Maximum Power Consumption		watts	1100	1550	2060	3280
Minimum Power Consumption		watts	200	250	375	650
Rated Power Consumption		watts	900	1300	1950	3000
EER at Maximum HeatingCapacity		W/w	4.36	4.26	4.87	3.51
EER at Minimum Heating Capacity		W/w	4.50	6.40	5.33	4.92
EER at Rated Heating Capacity		W/w	4.44	4.46	4.10	3.73
Current (Heating mode)		A	1.0 ~ 4.0	1.0 ~ 6.0	1.5 ~ 8.5	2.5 ~ 13.7
Dimension (H x W x D)	Indoor Unit	mm	290 x 870 x 230		339 x 1197 x 262	
	Outdoor Unit	mm	540 x 780(+62) x 290	595 x 780(+62) x 290	750 x 880(+88) x 340	845 x 970 x 370
Weight	Indoor Unit	Kgs	11.0	12.5	18.5	18.5
	Outdoor Unit	Kgs	36	38	60	72
Cooling Coil Row	Indoor Unit	No.s	2	3	3	3
Air Flow	Indoor Unit	CMH	810	1000	1450	1900
Long Reach Airflow Upto	Indoor Unit	Feet	17	20	60	65
Self Diagnosis Function	Indoor Unit		Yes	Yes	Yes	Yes
Sound Level (H/M/L/ULo)	Indoor Unit	dB	40 / 30 / 26 / 19(U-low)	45 / 36 / 28 / 22 (U-low)	44 / 41 / 37 / 25 (U-Low)	48 / 45 / 40/ 27(U-Low)
Louver Swing	Indoor Unit		3D + 3D AUTO	3D + 3D AUTO	3D + 3D AUTO	3D + 3D AUTO
Special Filter	Indoor Unit		Allergen + Solar + Anti Bacterial - Filters			
Blower Fan	Indoor Unit		Anti - Micro Biol Fan			
DC Fan Motor Speed	Indoor Unit		Auto / Powerful / High / Medium / Low / ULo (Silent Mode) / Dry			
Refrigerant Piping Thickness: 18 Gauge (1mm)	Liquid Line	mm	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")
	Gas Line	mm	9.52 (3/8")	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")
Main Power Supply to	Outdoor Unit		2.5 mm^2 x 3 cores (with Earthing Cable)			4 mm^2 x 3 cores (with Earthing)
Connecting wiring	B/w IOU & ODU		2.5 mm^2 x 4 cores (with Earthing Cable)			2.5 mm^2 x 4 cores (with Earthing)
Operating Temperature Range	Heating	°C	-15°C ~ 24°C			
Area Coverage***		Sq.Feet	130 ~ 170	165 ~ 200	300 ~ 450	450 ~ 600

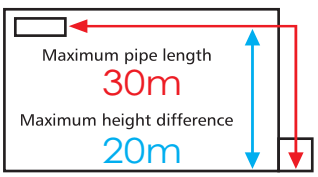
Refrigerant Pipe Length



SRK35ZS-S6



SRK50ZS-S6



SRK71ZR-S6 / SRK100ZR-S6

* = Model : SRK100ZR-S6 is of 3.1 ton. As per BEE notification, Star Rating is applied only for models upto 3.0 ton capacity only.
\# = This is an indicative ISEER for Model : SRK100ZR-S6, since BEE Star Rating regulations are not applicable for this model.
** Under Standard Installation & Lab Test Condition
*** Check for design condition and corresponding parameters like roof / window exposed to direction sunlight, of the area to be Air- conditioned.
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Hyper Inverter

ECO SMART

Cooling + Heating

SRK35ZSA-W, SRK50ZSA-W

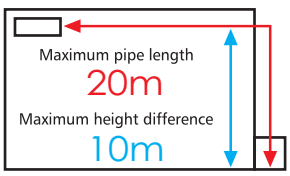
Super High Efficiency
Excellent Energy Saving

Elegant Timeless Design

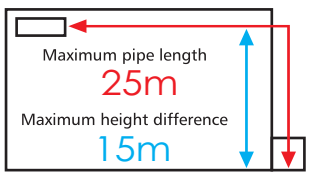
SPECIFICATIONS

			ECO SMART - HYPER INVERTER (R32) - COOLING + HEATING	
MODEL	Unit		SRK35ZSA-W	SRK50ZSA-W
	Indoor Unit		SRK35ZSA-W	SRK50ZSA-W
	Outdoor Unit		SRC35ZSA-W	SRC50ZSA-W
Maximum Tonnage**	(Cooling / Heating)		1.1 / 1.37	1.6 /1.90
BEE STAR RATING - 2018			5 Star	5 Star
Compressor Type			Super Tropical - DC PAM Inverter - Return Cooled - Rotary	
VFD - Variable Frequency Drive			Inverter Vector Control Technology for Higher Efficiency	
Minimum Compressor RPM			7 ~ 15 RPM - Using Vector Control Technology	
Refrigerant Volume Control Using			Motorized Electronic Expansion Valve for Variable Refrigerant Flow	
LCD Remote Control (iPM Controller)			iPM (Intelligent Power Module)	
Power Source			1 Phase, 220 / 230 V, 50 Hz	
Maximum Cooling Capacity at	120% Load	BTU/hr	13252	18937
Rated Cooling Capacity at	100% Load	BTU/hr	12454	17435
Rated Cooling Capacity	50% Load	BTU/hr	6312	8769
Maximum Cooling Capacity at	120% Load	Watts	3884	5550
Rated Cooling Capacity at	100% Load	Watts	3650	5110
Rated Cooling Capacity at	50% Load	Watts	1850	2570
Rated Power Consumption at	100% Load	watts	782	1340
Rated Power Consumption at	50% Load	watts	310	474
Rated EER / COP at	100% Load	W/w	4.7	3.8
Rated EER / COP at	50% Load	W/w	6.0	5.4
Rated Indian Seasonal Energy Efficiency		ISEER	5.75	4.94
Current (Minimum ~ Maximum)**		A	0.70 ~ 3.6	1.1 ~ 6.2
Maximum Heating Capacity **		BTU/hr	16463	22690
Minimum Heating Capacity		BTU/hr	3071	5459
Rated Heating Capacity		BTU/hr	13989	20131
Maximum Heating Capacity **		Watts	4825	6650
Minimum Heating Capacity		Watts	900	1600
Rated Heating Capacity		Watts	4100	5900
Maximum Power Consumption		watts	950	1450
Minimum Power Consumption		watts	200	250
Rated Power Consumption		watts	900	1300
EER at Maximum HeatingCapacity		W/w	5.08	4.59
EER at Minimum Heating Capacity		W/w	4.50	6.40
EER at Rated Heating Capacity		W/w	4.56	4.54
Current (Heating mode)		A	1.0 ~ 3.0	1.0 ~ 6.0
Dimension (H x W x D)	Indoor Unit	mm	290 x 870 x 230	290 x 870 x 230
	Outdoor Unit	mm	540 x 780(+62) x 290	595 x 780(+62) x 290
Weight	Indoor Unit	Kgs	11.0	12.5
	Outdoor Unit	Kgs	36	38
Cooling Coil Row	Indoor Unit	No.s	2	3
Air Flow	Indoor Unit	CMH	850	1050
Long Reach Airflow Upto	Indoor Unit	Feet	17	20
Self Diagnosis Function	Indoor Unit		Yes	Yes
Sound Level (H/M/L/ULo)	Indoor Unit	dB	40 / 30 / 26 / 19(U-low)	45 / 36 / 28 / 22 (U - low)
Louver Swing	Indoor Unit		3D + 3D AUTO	3D + 3D AUTO
Special Filter	Indoor Unit		Allergen + Solar + Anti Bacterial - Filters	
Blower Fan	Indoor Unit		Anti - Micro Biol Fan	
DC Fan Motor Speed	Indoor Unit		Auto / Powerful / High / Medium / Low / ULo (Silent Mode) / Dry	
Refrigerant Piping Thickness: 18 Gauge (1mm)	Liquid Line	mm	6.35 (1/4")	
	Gas Line	mm	9.52 (3/8")	12.7 (1/2")
Main Power Supply to	Outdoor Unit		2.5 mm^2 x 3 cores (with Earthing Cable)	
Connecting wiring	B/w IOU & ODU		2.5 mm^2 x 4 cores (with Earthing Cable)	
Operating Temperature Range	Heating	°C	-15°C ~ 24°C	
Area Coverage***		Sq.Feet	130 ~ 170	165 ~ 200

Refrigerant Pipe Length



SRK35ZSA-W



SRK50ZSA-W

** Under Standard Installation & Lab Test Condition
*** Check for design condition and corresponding parameters like roof / window exposed to direction sunlight, of the area to be Air- conditioned.
Because of our policy of continuous improvement, we reserve the right to make changes in all specifications without any prior notice

ISEER = INDIAN SEASONAL ENERGY EFFICIENCY RATIO