M series <Inverter models>

MSY-GT series



MSY-GT13VF



MSY-GT18/24/30VF

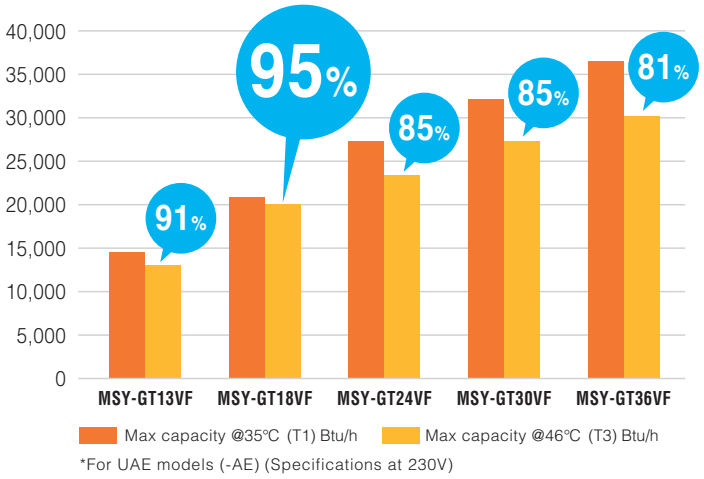


MSY-GT36VF



HIGH COOLING PERFORMANCE

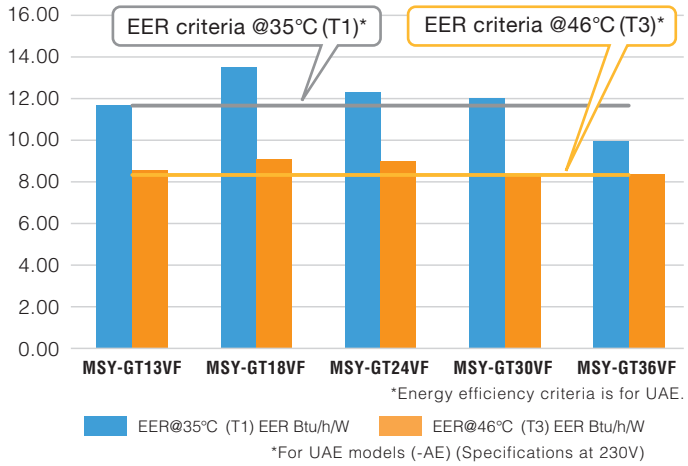
MSY-GT series achieve strong cooling opereation even at high ambient temperature. Cooling capacity (@46°C) keeps 95% compared @35°C for 18,000Btu class.*



*For UAE models (-AE) (Specifications at 230V)

High Energy Efficiency

The classes from low-capacity (13,000Btu) to high-capacity (36,000Btu), have achieved high energy efficiency not only rated condition (@35°C), but even at high ambient 46°C.

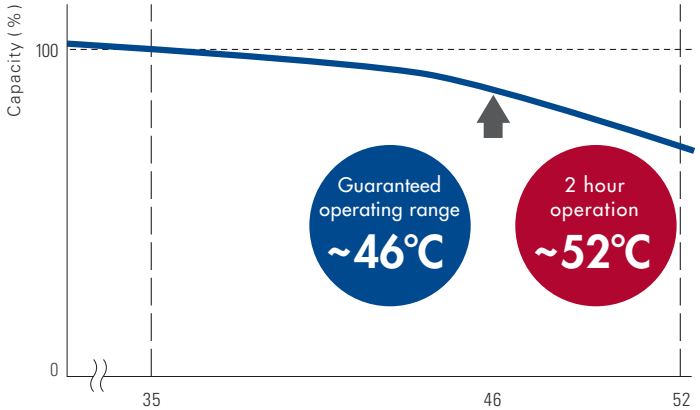


*Energy efficiency criteria is for UAE.

*For UAE models (-AE) (Specifications at 230V)

HIGH COOLING PERFORMANCE EVEN IN TROPICAL CONDITION

Powerful cooling performance realizes guaranteed operating range up to 46°C. In addition, it realizes to keep operaitng for 2hours at 52°C.



*Capacity curve is image

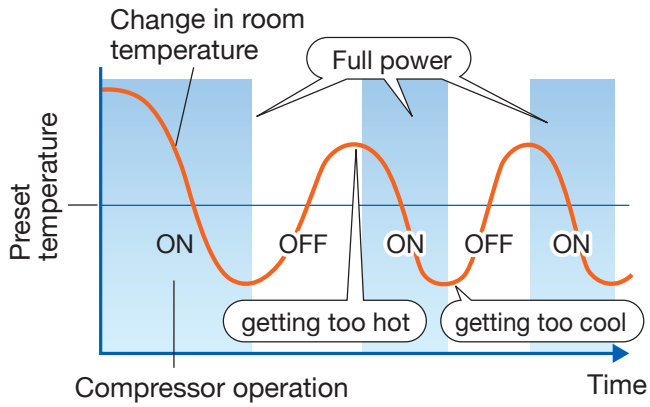
Inverter Technology

Below is a simple comparison of air conditioner operation control with and without an inverter.

■ **Inverter operation comparison**

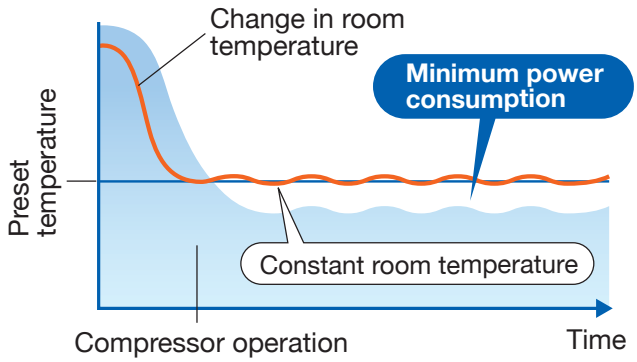
Non-inverter air conditioner

On/Off operation of compressor keeps room temperature



Inverter air conditioner

Optimum control of frequency keeps preset room temperature



The compressors of air conditioners without an inverter start and stop repeatedly in order to maintain the preset room temperature. This repetitive on/off operation uses excessive electricity and compromises room comfort. The compressors of air conditioners equipped with an inverter run continuously; the inverter quickly optimizing the operating frequency according to changes in room temperature. This ensures energy-efficient operation and a more comfortable room.

Point 1 Quick & Powerful

Increasing the compressor motor speed by controlling the operation frequency ensures powerful output at start-up, brings the room temperature to the comfort zone faster than units not equipped with an inverter. Hot rooms are cooled, and cold rooms are heated faster and more efficiently.

Point 2 Room Temperature Maintained

The compressor motor operating frequency and the change of room temperature are monitored to calculate the most efficient waveform to maintain the room temperature in the comfort zone. This eliminates the large temperature swings common with non-inverter systems, and guarantees a pleasant, comfortable environment.

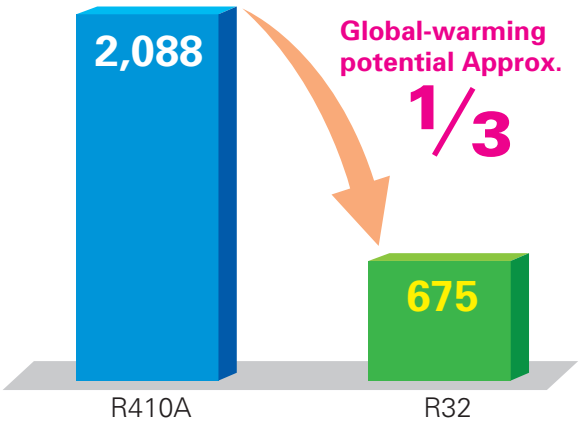
R32 refrigerant



Points for Use

The new R32 refrigerant has a global-warming potential approximately 1/3*1 that of our current refrigerant, R410A; thereby dramatically reducing the impact on global-warming more than ever.

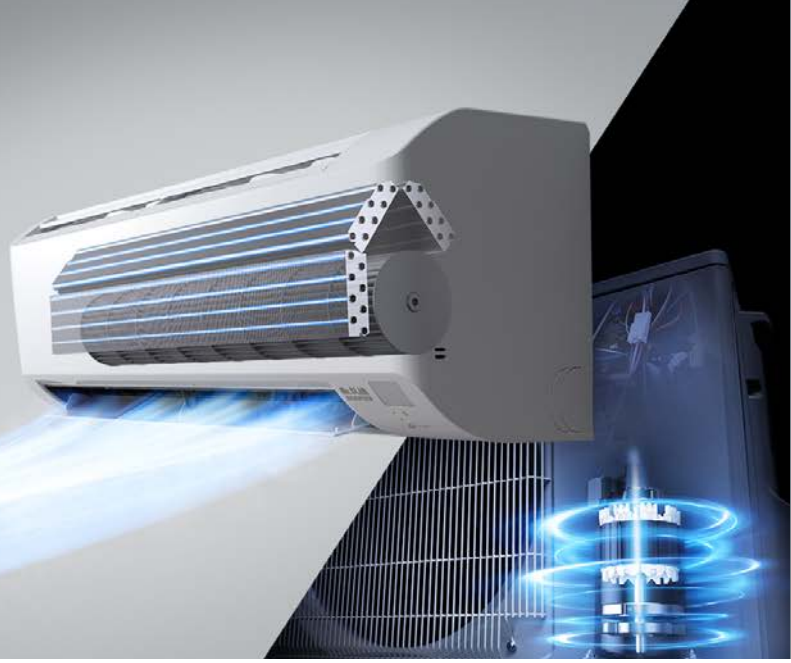
Comparison of Global Warming Potential



*1: Source: IPCC 4th Assessment Report, global-warming potential (GWP) 100-year value. Comparison of 2,088(R410A) and 675 (R32).

Fast Cooling

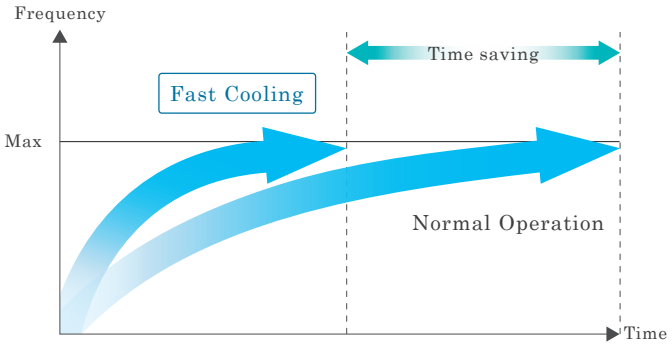
Fast Cooling is the most essential desire in air conditioner.
MITSUBISHI ELECTRIC's Fast Cooling brings
you fast refreshment in your life.



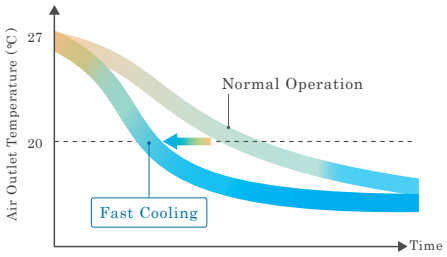
＊Image

01 Compressor Frequency image

Pressing the Fast Cooling button makes the compressor reach its maximum frequency remarkably faster than in Normal Operation.

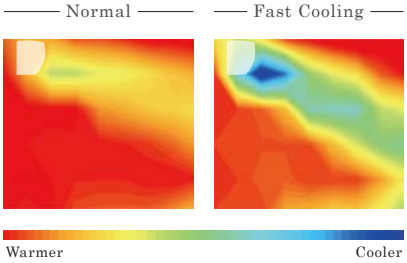


02 Air Outlet Temperature



Lowers the air outlet temperature faster than Inverter Normal Operation.

03 Thermography



Quickly cools the room with the highest-volume, and low-temperature airblow at 2min. after operation.

04 Fast Cooling button

Once activated, this mode continues for 15 minutes.



Fast Cooling mode starts immediately with the push of a button. Accoding to preference,air direction can be changed freely.

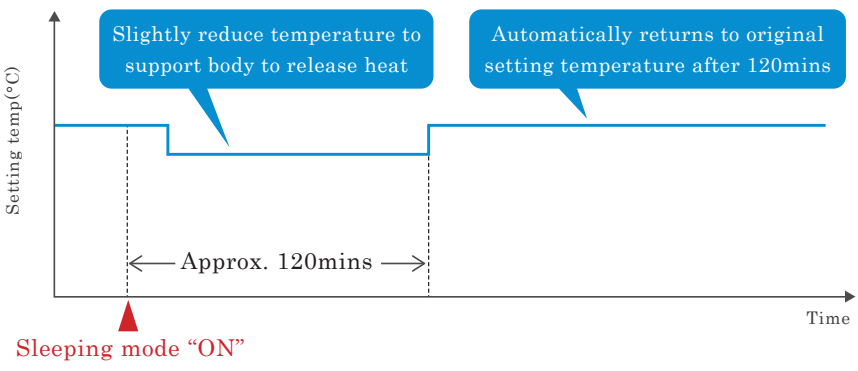
Error code display

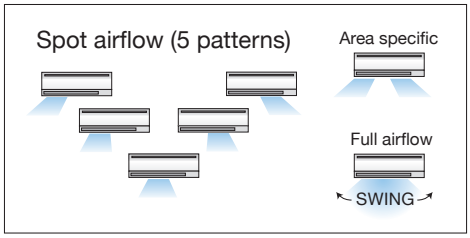


Error codes are displayed on the remote controller for trouble shooting.
＊For the details, please refer to the operating Instructions

Sleep mode

Sleep mode can support body to release heat by operating slightly lower temperature than set temperature before press “sleep mode” bottom for 2hours.





*Manual : MSY-GT13
Auto : MSY-GT18/24/30/36

Dual Barrier Coating*

Dual Barrier Coating prevents dust and greasy dirt from getting into the air conditioner

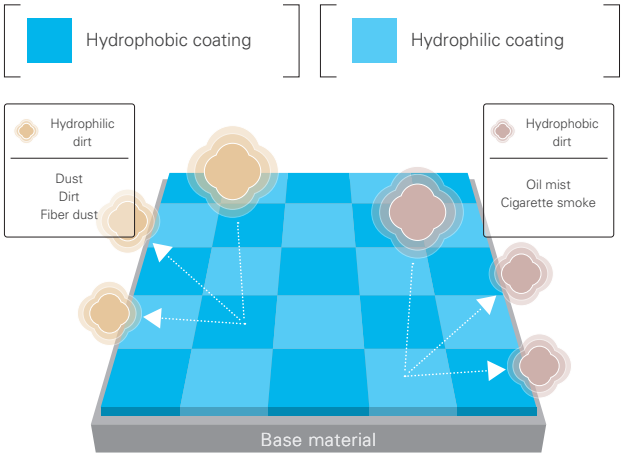
*Only for Fan



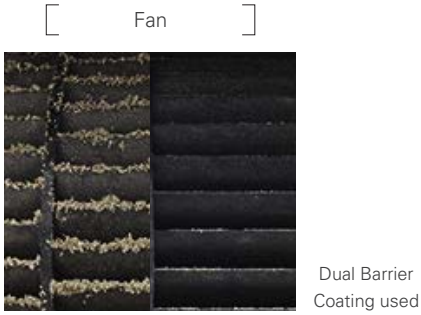
*Image

State-of-the-art coating technology

Dual Barrier repels both types of dirt



Comparison of dirt on Fan

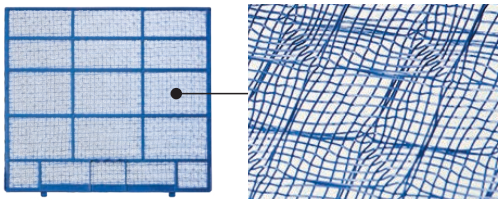


Dirt is generally classified into two groups. Dual Barrier Coating works as a two barrier coating with blended "Hydrophobic coating" that prevent hydrophilic dirt penetration and "Hydrophilic coating" that prevent hydrophobic dirt.

Nano platinum filter

Nano Platinum

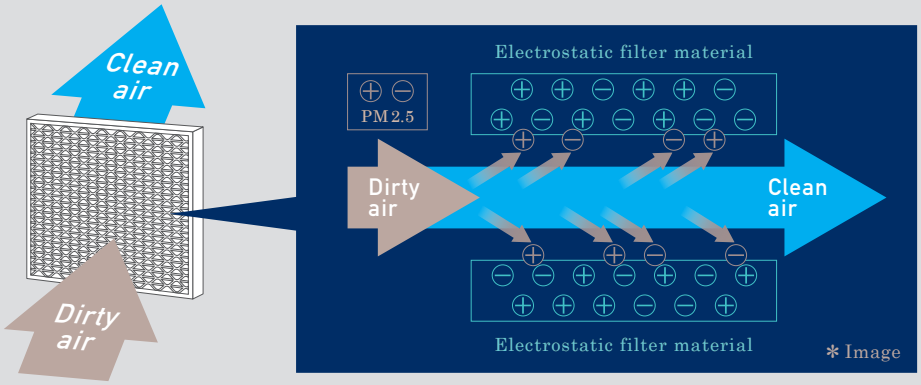
Nano Platinum Filter with the three-dimensional surface has a large capture area and incorporates nanometer-sized platinum-ceramic particles that work to break bacteria, mold, and also odours.





Microparticle Catching Filter

Effectively catches floating PM2.5 particles to maintain clean air in the room.



*Image

Electrostatic material removes PM2.5 from the air and absorbs it when passing through the filter



Model name:
MAC-EMF515FT-E (for MSY-GT13VF)
MAC-EMF615FT-E (for MSY-GT18/24/30VF)
MAC-EMF715FT-E (for MSY-GT36VF)

M series Inverter models Specification

MSY-GT series for UAE

Indoor Unit				MSY-GT13VF	MSY-GT18VF	MSY-GT24VF	MSY-GT30VF	MSY-GT36VF
Outdoor Unit				MUY-GT13VF	MUY-GT18VF	MUY-GT24VF	MUY-GT30VF	MUY-GT36VF
Power supply (Outdoor) [Single phase]			V	220-230-240	220-230-240	220-230-240	220-230-240	220-230-240
Refrigerant				R32	R32	R32	R32	R32
T1* (Specifications at 230V)		Capacity (Min-Max)	kW	3.810 (1.50 - 4.25)	5.280 (1.81 - 6.02)	7.050 (2.11 - 8.04)	8.210 (2.11 - 9.44)	10.030 (2.90 - 10.76)
			Btu/h	13,000 (5,118 - 14,502)	18,016 (6,176 - 21,155)	24,056 (7,200 - 27,434)	28,014 (7,200 - 32,211)	34,224 (9,895 - 36,715)
		Total input		1.110	1.340	1.960	2.330	3.420
		EER		11.71	13.44	12.27	12.02	10.01
T3* (Specifications at 230V)		Capacity (Max)	kW	3.225 (3.85)	5.450 (5.90)	6.260 (6.87)	7.490 (8.06)	8.060 (8.90)
			Btu/h	11,004 (13,137)	18,596 (20,132)	21,360 (23,441)	25,557 (27,502)	27,502 (30,368)
		Total input	kW	1.290	2.055	2.405	3.080	3.315
		EER	Btu/h/W	8.53	9.05	8.88	8.30	8.30
Operating Current (220-230-240V)			A	5.2 - 5.0 - 5.0	6.3 - 6.0 - 5.8	9.0 - 8.6 - 8.2	10.7 - 10.2 - 9.8	15.7 - 15.0 - 14.4
Indoor Unit	Power Input	Rated	kW	0.030	0.038	0.038	0.046	0.080
	Running Current	Rated	A	0.24	0.34	0.34	0.39	0.74
	Dimension	H*W*D	mm	280*838*228	325*1100*238	325*1100*238	325*1100*238	365*1170*295
	Net weight		kg	8.9	14.7	14.7	14.7	20
	Air Volume (Slo-Lo-Med-Hi-SHi)		m3/min	5.2-7.5-9.3-11.4-13.8	9.0-11.1-13.1-15.4-20.0	9.6-11.9-14.4-16.6-20.0	7.9-11.3-13.9-17.7-21.7	10.1-14.5-17.7-22.3-27.1
	Sound level (SPL)(Slo-Lo-Med-Hi-SHi)		dB(A)	26-31-36-41-47	27-33-38-43-49	28-34-39-44-50	30-37-42-46-53	32-38-43-48-53
Outdoor Unit	Dimension	H*W*D	mm	550*800*285	714*800*285	714*800*285	880*840*330	880*840*330
	Net weight		kg	31.5	38	38	47	49
	Air Volume		m3/min	36.4	53.2	56.4	60.2	63.2
	Sound level (SPL)		dB(A)	52	55	56	57	57
	Breaker Size		A	10	16	16	20	20
Piping	Piping diameter	Liquid-Gas	inch	1/4 - 1/2	1/4 - 1/2	1/4 - 1/2	1/4 - 5/8	1/4 - 5/8
	Max piping length	Out-In	m	20	30	30	30	30
	Max Height deffierence	Out-In	m	12	15	15	15	15
Guaranteed operating range (Outdoor)			°C	21 ~ 46				

*Specifications are based on the following condition.
T1- Condition : indoor temperature of 27°CDB/ 19°CWB, and outdoor temperature of 35°CDB/24°CWB.
T3- Condition : indoor temperature of 29°CDB/ 19°CWB, and outdoor temperature of 46°CDB/24°CWB.
*Unit is able to operate up to 52 deg C based on the testing condition of UAE S/ISO 5151:2011