MSZ-AP SERIES

Introducing a compact and stylish indoor unit with various capacity, designed to match number of rooms. High performance indoor and outdoor units enabled to achieve "Rank A^{+++}" for SEER. *MSZ-AP20VG

R32 Single / Multi

R410A Multi

MSZ-AP15/20VG

MSZ-AP60/71VG

GOOD DESIGN AWARD 2017

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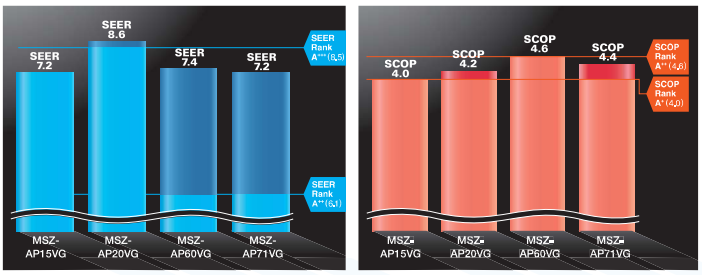
High energy saving

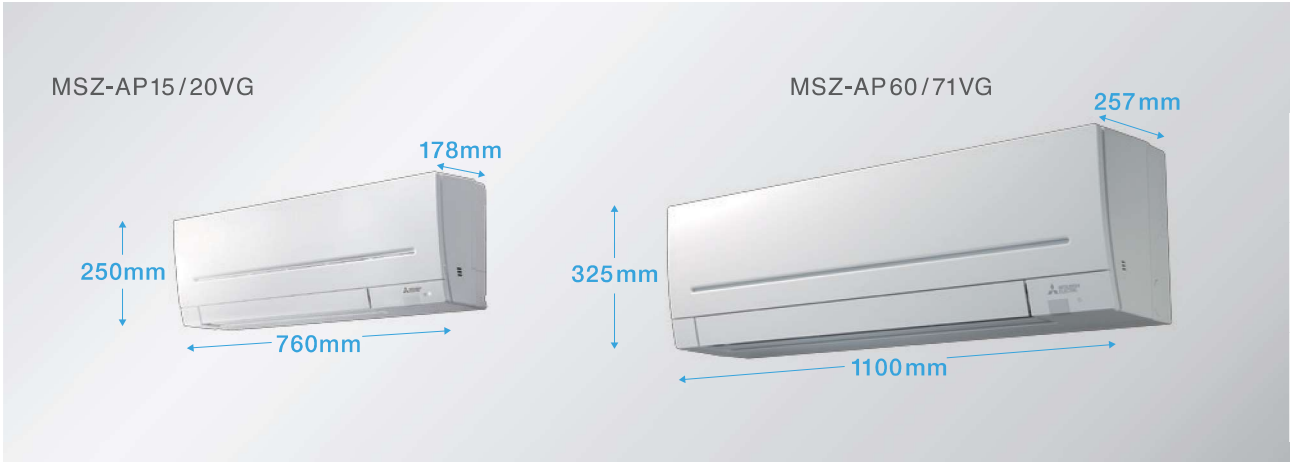
20 SEER A^{+++} 60 SCOP A^{++}

The classes from the low-capacity 25 to the high-capacity 60, have achieved either the "Rank A^{+++}" or "Rank A^{++}" for SEER and SCOP as energy-savings rating. Our air conditioners are contributing to reduce energy consumption in a wide range.



Compact and stylish

All the classes are introduced as single-split and multi-systems. From small rooms to living rooms, it is possible to coordinate residences with a unified design.



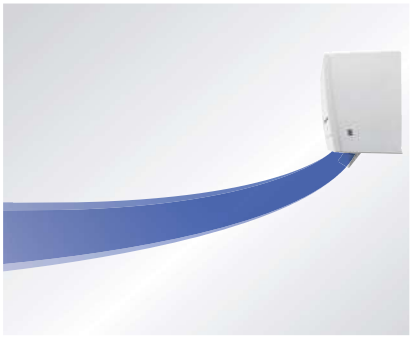
■Living

■Study

■Bedroom

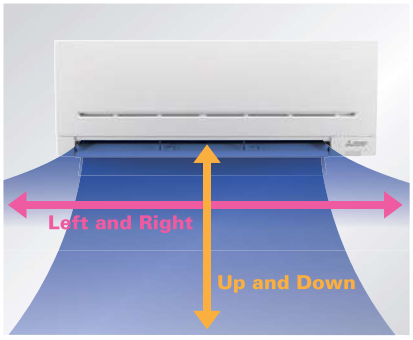
Evolved comfortable convenience function

Horizontal Airflow



The new airflow control which spreads across the ceiling eliminates the uncomfortable drafty feeling.

Auto Vane Control



Auto vanes can be moved left and right, and up and down using the remote controller.

The Function

"Weekly Timer"

Weekly Timer

Easily set desired temperatures and operation start/stop times to match lifestyle patterns. Reduce wasted energy consumption by using the timer to prevent forgetting to turn off the unit and eliminate temperature setting adjustments.

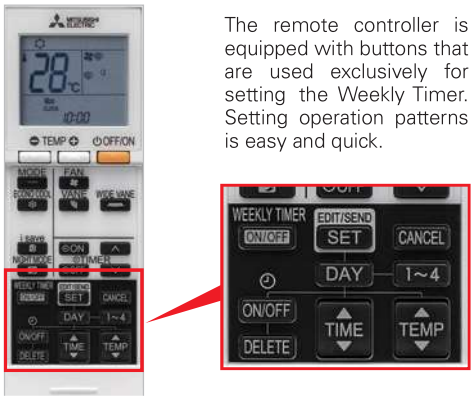
■ **Example Operation Pattern (Winter/Heating mode)**

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
6:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
8:00	Automatically changes to high-power operation at wake-up time						
10:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
12:00	Automatically turned off during work hours					Midday is warmer, so the temperature is set lower	
14:00							
16:00							
18:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
20:00	Automatically turns on, synchronized with arrival at home					Automatically raises temperature setting to match time when outside-air temperature is low	
22:00							
(during sleeping hours)	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
	Automatically lowers temperature at bedtime for energy-saving operation at night						

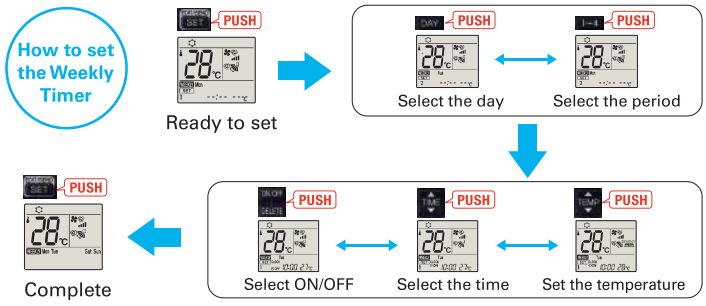
Settings

Pattern Settings: Input up to four settings for each day
Settings: •Start/Stop operation •Temperature setting ✻The operation mode cannot be set.

■Easy set-up using dedicated buttons



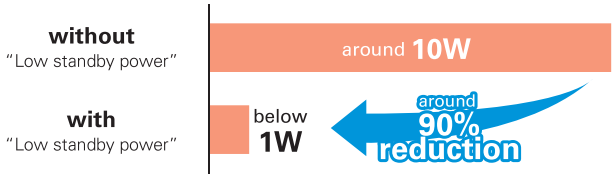
The remote controller is equipped with buttons that are used exclusively for setting the Weekly Timer. Setting operation patterns is easy and quick.



- Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired patterns into the remote controller memory. Pushing the "CANCEL" button will end the set-up process without sending the operation patterns to the indoor unit).
- It takes a few seconds to transmit the Weekly Timer operation patterns to the indoor unit. Please continue to point the remote controller at the indoor unit until all data has been sent.
- When "Weekly Timer" is set, temperature can not be set 10°C. (only for 15/20 models)

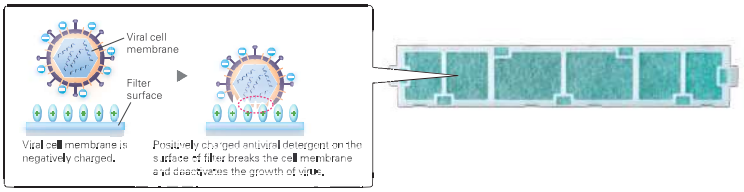
Low Standby Power

Electrical devices consume standby power even when they are not in actual use. While we obviously strive to reduce power consumption during actual use, reducing this wasted power that cannot be seen is also very important.



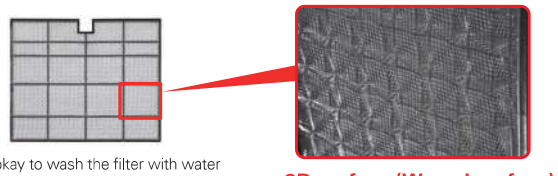
V Blocking Filter

V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



Air Purifying Filter

This filter generates stable antibacterial and deodorising effects. The size of the three-dimensional surface has been increased as well, enlarging the filter capture area. These features give the Air Purifying Filter better dust collection performance than conventional filters. The superior air-cleaning effectiveness raises room comfort yet another level.

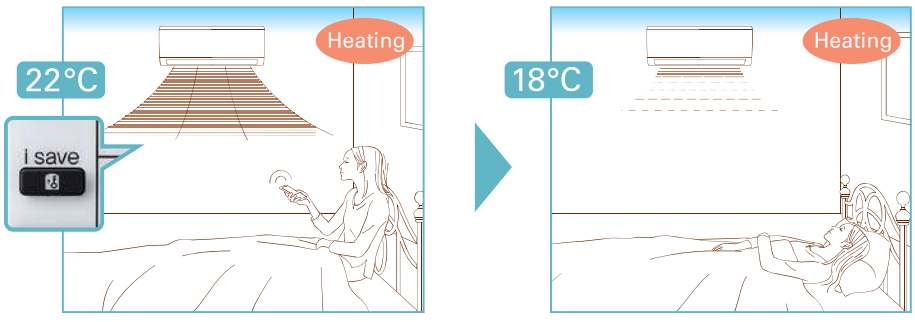


✻ It is okay to wash the filter with water (air-cleaning effect is maintained)

3D surface (Waved surface)

"i save" Mode

"i save" is a simplified setting function that recalls the preferred(preset) temperature by pressing a single button on the remote controller. Press the same button twice in repetition to immediately return to the previous temperature setting. Using this function contributes to comfortable, waste-free operation, realising the most suitable air conditioning settings and saving on power consumption when, for example, leaving the room or going to bed.

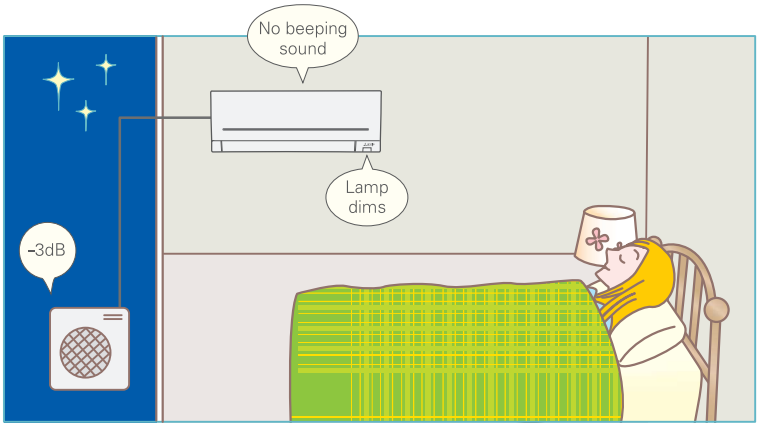


✻ Temperature can be preset to 10°C when heating in the "i-save" mode.

Night Mode

When Night Mode is activated using the wireless remote controller, air conditioner operation will switch to the following settings.
- The brightness of the operation indicator lamp will become dimmer.
- The beeping sound will be disabled.
- The outdoor operating noise will drop to 3dB lower than the rated operating noise specification.

*The cooling/heating capacity may drop.



Built-in Wi-Fi Interface

(MSZ-AP15/20/60/71VGK)

The indoor unit is equipped with a Wi-Fi Interface inside an exclusive pocket in the unit.
This eliminates the need to install a Wi-Fi interface, and also contributes to the beautiful appearance since the interface is hidden.

LED Backlight Remote Controller

Blacklight function incorporated, making screen easy to read in the dark. Even in dimly lit rooms, the screen can be seen clearly for trouble-free remote controller operation.

MSZ-AP SERIES

Joint Lap | DC Fan Motor | PAM | Grooved Piping | SEER A+++ | SCOP A++

Indoor Unit R32 R410A

✻VGK model Wi-Fi Interface built-in.

MSZ-AP15/20VG(K)

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MSZ-AP60/71VG(K)

Outdoor Unit R32

MUZ-AP15VG

MUZ-AP20VG

MUZ-AP60VG

MUZ-AP71VG

Remote Controller

Econo Cool | Natural White | AUTO VANE | V Blocking Filter | Air Purifying | SWING | SWING (60/71 only) | AUTO | WIDE&LONG (60/71) | Weekly Timer | i save | ACO | Auto Restart | Low Temp Cooling (Optional)

Group Control (Optional) | M-NET connection (Optional) | Wi-Fi Interface (VGK model) | MXZ connection | 10°C (Indoor) | Night | Back Light Remote | Cleaning-free, pipe reuse | Flare connection | Self Diagnosis | Failure Recall

Type				Inverter Heat Pump			
Indoor Unit				MSZ-AP15VG(K)	MSZ-AP20VG(K)	MSZ-AP60VG(K)	MSZ-AP71VG(K)
Outdoor Unit				MUZ-AP15VG	MUZ-AP20VG	MUZ-AP60VG	MUZ-AP71VG
Refrigerant				Single: R32(*1) / Multi: R410A or R32(*1)		Single: R32(*1) / Multi: R32(*1)	
Power Supply	Source			Outdoor Power supply			
	Outdoor (V / Phase / Hz)			230 / Single / 50			
Cooling	Design load		kW	1.5	2.0	6.1	7.1
	Annual electricity consumption (*2)		kWh/a	72	81	288	345
	SEER (*4)			7.2	8.6	7.4	7.2
		Energy efficiency class		A++	A+++	A++	A++
	Capacity	Rated	kW	1.5	2.0	6.1	7.1
		Min-Max	kW	0.5-2.2	0.6-2.7	1.4-7.3	2.0-8.7
	Total Input	Rated	kW	0.370	0.460	1.590	2.010
Heating (Average Season)(*5)	Design load		kW	1.6 (-10°C)	2.3 (-10°C)	4.6 (-10°C)	6.7 (-10°C)
	Declared Capacity	at reference design temperature	kW	1.6 (-10°C)	2.3 (-10°C)	4.6 (-10°C)	6.7 (-10°C)
		at bivalent temperature	kW	1.6 (-10°C)	2.3 (-10°C)	4.6 (-10°C)	6.7 (-10°C)
		at operation limit temperature	kW	1.6 (-15°C)	2.2 (-15°C)	3.7 (-15°C)	5.4 (-15°C)
	Back up heating capacity		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
	Annual electricity consumption (*2)		kWh/a	559	766	1398	2132
	SCOP (*4)			4.0	4.2	4.6	4.4
		Energy efficiency class		A+	A+	A++	A+
	Capacity	Rated	kW	2.0	2.5	6.8	8.1
		Min-Max	kW	0.5-3.1	0.5-3.5	2.0-8.6	2.2-10.3
	Total Input	Rated	kW	0.500	0.600	1.670	2.120
Operating Current (Max)			A	5.5	7.0	14.1	16.4
Indoor Unit	Input	Rated	kW	0.017	0.019	0.049	0.045
	Operating Current (Max)		A	0.17	0.2	0.5	0.4
	Dimensions	H*W*D	mm	250-760-178	250-760-178	325-1100-257	325-1100-257
	Weight		kg	8.2	8.2	16.0	17.0
	Air Volume (SLo-Lo-Mid-Hi-SHi(*3))	Cooling	m^3/min	3.5 - 3.9 - 4.6 - 5.5 - 6.4	3.5 - 3.9 - 4.6 - 5.5 - 6.9	9.4 - 11.0 - 13.2 - 16.0 - 18.9	9.6 - 11.5 - 13.2 - 15.3 - 18.6
		Heating	m^3/min	3.7 - 4.4 - 5.0 - 6.0 - 6.8	3.7 - 4.4 - 5.0 - 6.0 - 7.3	10.8- 13.4 - 15.4 - 17.4 - 20.3	10.2- 11.5 - 13.2 - 15.3 - 19.2
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi(*3))	Cooling	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	29 - 37 - 41 - 45 - 48	30 - 37 - 41 - 45 - 49
		Heating	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	30 - 37 - 41 - 45 - 48	30 - 37 - 41 - 45 - 51
	Sound Level (PWL)	Cooling	dB(A)	59	60	65	65
Outdoor Unit	Dimensions	H*W*D	mm	538-699-249	550-800-285	714-800-285	880-840-330
	Weight		kg	23	31	40	55
	Air Volume	Cooling	m^3/min	26	32.2	52.1	54.1
		Heating	m^3/min	21	29.8	52.1	47.9
	Sound Level (SPL)	Cooling	dB(A)	50	47	56	56
		Heating	dB(A)	50	48	57	55
	Sound Level (PWL)	Cooling	dB(A)	63	59	69	69
	Operating Current (Max)		A	5.3	6.8	13.6	16.0
	Breaker Size		A	10	10	16	20
Ext. Piping	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7
	Max.Length	Out-In	m	20	20	30	30
	Max.Height	Out-In	m	12	12	15	15
Guaranteed Operating Range (Outdoor)		Cooling	℃	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating	℃	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R32 is 675 in the IPCC 4th Assessment Report.
(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) SHi: Super High
(*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".
(*5) Please see page 57-59 for heating (warmer season) specifications.