MSZ–A 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-AP20/25/35VG

R32 Single / Multi

R410A Multi

MSZ-AP15/20VG

MSZ-AP25/35/42/50VG

MSZ-AP60/71VG

GOOD DESIGN

reddot award 2018 winner

High energy saving

20/25/35 **SEER A^{+++}**   25-60 **SCOP A^{++}**

All models in the series, 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.
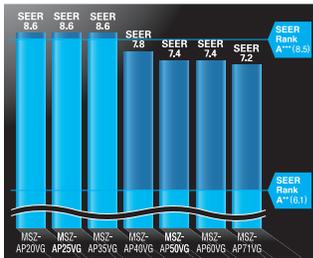
Compact and stylish

15 class are for multi-systems and 25-71 class are introduced as single-split and multi-systems. From small rooms to living rooms, it is possible to coordinate residences with a unified design.
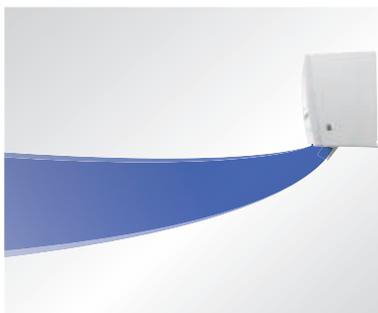
■Living　　■Study　　■Bedroom

MSZ-AP15/20VG
178mm　250mm　760mm

MSZ-AP25/35/42/50VG
219mm　299mm　798mm
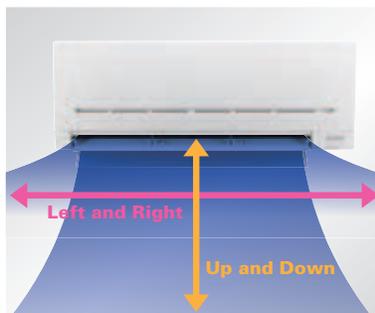
MSZ-AP60/71VG
257mm　325mm　1100mm

Evolved comfortable convenience function

Horizontal Airflow

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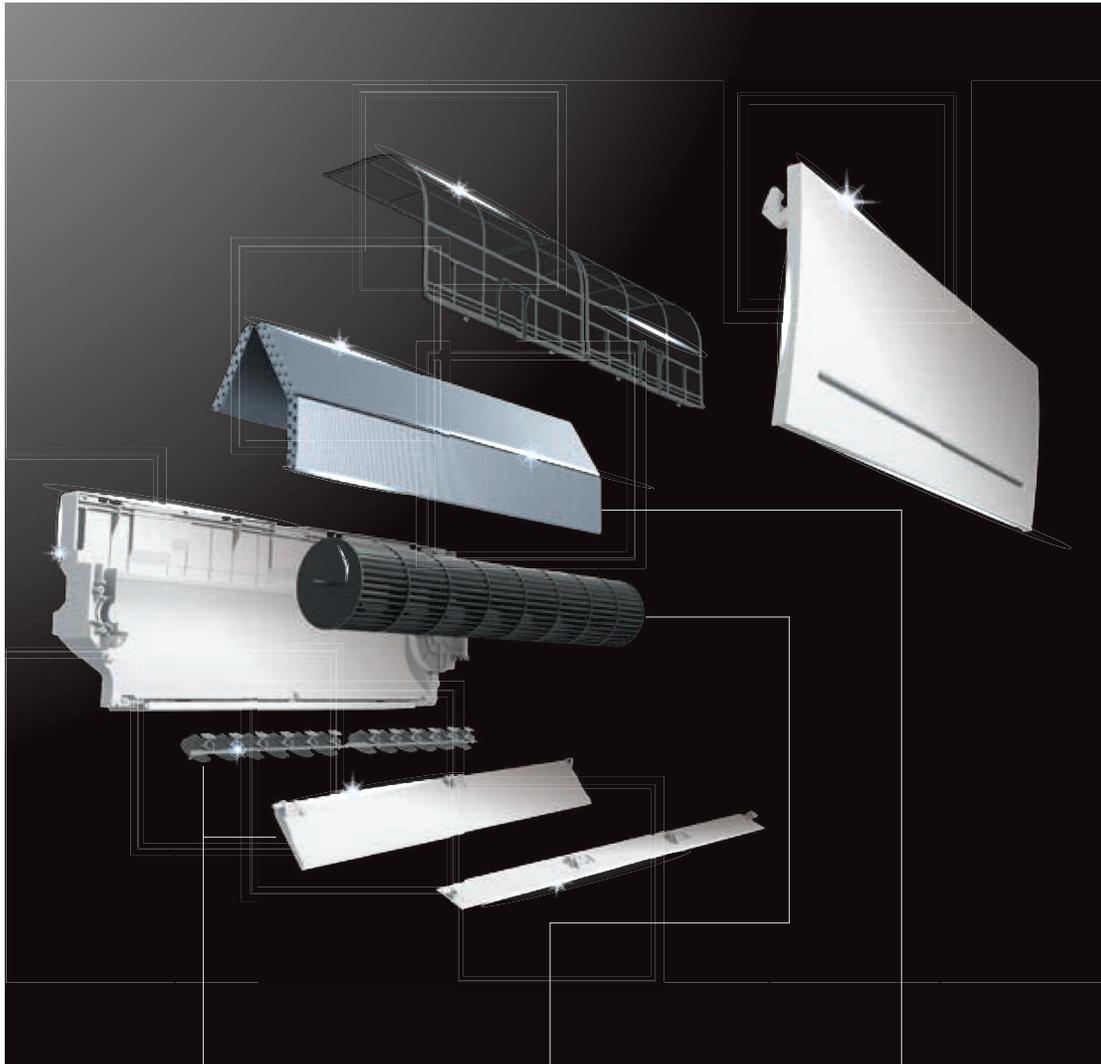
Auto Vane Control

Left and Right

Up and Down

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

The Function

Econo Cool ｜ AUTO VANE ｜ Air Purifying ｜ SWING ｜ SWING *

AUTO ｜ Weekly Timer ｜ ⏰ ｜ i save ｜ ACO

Auto Restart ｜ Low Temp Cooling ｜ Optional ｜ Group Control Optional ｜ M-NET connection Optional

Wi-Fi Interface Builty-in* / optional ｜ MXZ connection ｜ 10°C ** ｜ Indoor** ｜ Night **

Cleaning-free pipe reuse ｜ Flare connection ｜ Self Diagnosis ｜ Failure Recall

*Only for 25/35/42/50/60/71 models.
**Only for 20/25/35/42/50/60/71 models.

Vertical and Horizontal Vane

New vertical and horizontal vanes are double the size of the previous model, improving airflow control elaborately.

175% larger

204% larger

Line Flow Fan

New line flow Fan is 122% larger and 108% wider than the previous model, leading to higher aerodynamic performance. Also, same sound level as the previous model.

122% larger

108% larger

Heat Exchanger

New ø5 Heat exchanger enables to realise 32% thinner depth than the previous model. It realises low pressure loss leading to high performance.

32% Thinner

"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)

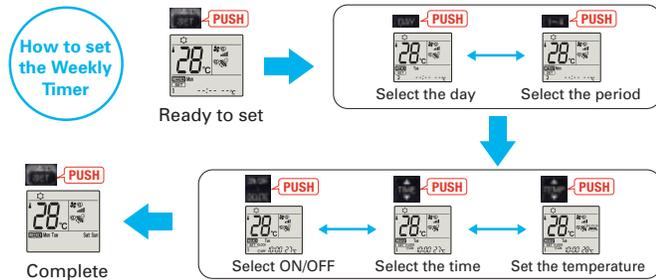|	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
6:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
	Automatically changes to high-power operation at wake-up time						
8:00							
10:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
12:00							
14:00	Automatically turned off during work hours					Midday is warmer, so the temperature is set lower	
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.

How to set the Weekly Timer

Ready to set → PUSH → Select the day ↔ Select the period → PUSH

Complete ← PUSH ← Select ON/OFF ↔ Select the time ↔ Set the temperature

• 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 in-putting 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.

without "Low standby power" — around **10W**

**with** "Low standby power" — below **1W** — around **90% reduction**

Air Purifying Filter

(MSZ-AP25/35/42/50/60/71) Air Purifying

This filter generates stable antibacterial and deodourising 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.
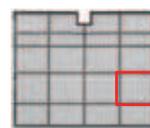
✳ It is okay to wash the filter with water (air-cleaning effect is maintained)

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.
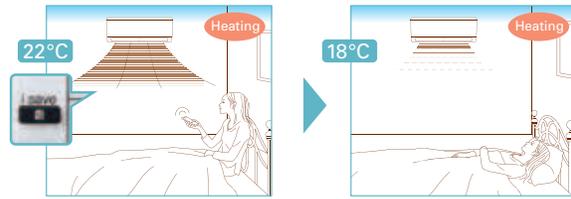
✱ Temperature can be preset to 10°C when heating in the "i-save" mode. (only for 15/20 models)

Outdoor Units for Cold Region

(MSZ-AP25/35/42/50)

Single split-type outdoor units are available in both standard and heater-equipped units. An electric heater is installed in each unit to prevent freezing in cold outdoor environments.

Standard Units		Heater Installed	
MUZ-AP25/35/42VG	MUZ-AP50VG	MUZ-AP25/35/42VGH	MUZ-AP50VGH

Night Mode

(MSZ-AP20/25/35/42/50/60/71) **Night**

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.

No beeping sound

Lamp dims

–3dB
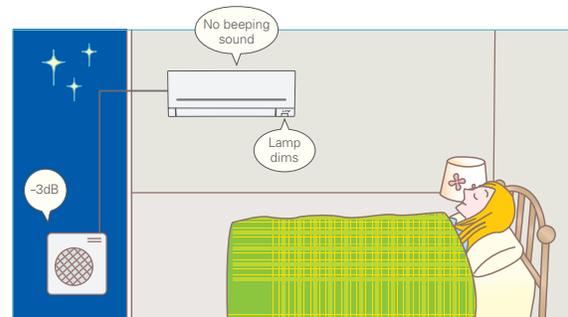
Quiet Operation

The indoor unit noise level is as low as 19dB for AP Series, offering a peaceful inside environment.

● Noise Level

| Subway car interior | Quiet passenger car interior (40km/h) | Library interior | Sound of rustling leaves | Human hearing limits (Extremely quiet) |

80dB   60dB   40dB   10dB

Only **19dB** (for AP25/35)

In-house investigation
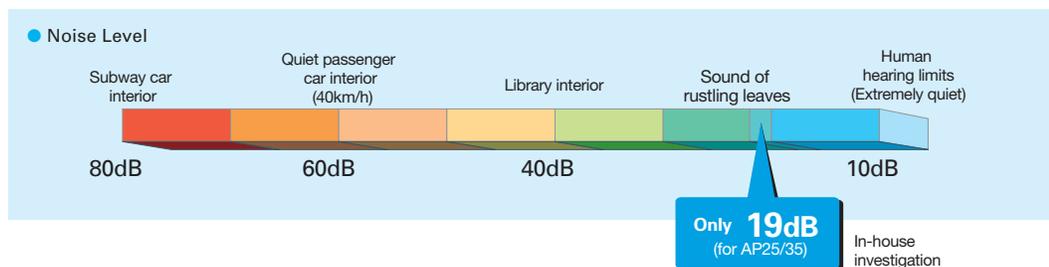
Built-in Wi-Fi Interface

(MSZ-AP25/35/42/50/60/71VGK) **Wi-Fi Interface**

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.

MSZ-A SERIES

Indoor Unit R32 R410A

MSZ-AP15/20VG

reddot award 2018 winner

*AP15 for MXZ Connection Only

Outdoor Unit R32

MUZ-AP20VG

Remote Controller

Econo Cool | Natural White | AUTO VANE | SWING | AUTO | Weekly Timer | i save | ACO | Auto Restart | (Optional) | Group Control (Optional) | M-NET connection (Optional) | Wi-Fi Interface (Optional) | MXZ connection | Flare connection

Self Diagnosis | Failure Recall

Type			**Inverter Heat Pump**					
Indoor Unit			MSZ-AP15VG	MSZ-AP20VG	MSZ-AP25VG(K)	MSZ-AP25VG(K)	MSZ-AP35VG(K)	MSZ-AP35VG(K)
Outdoor Unit			for MXZ connection	MUZ-AP20VG	MUZ-AP25VG	MUZ-AP25VGH	MUZ-AP35VG	MUZ-AP35VGH
Refrigerant			Single: R32[*1] / Multi: R410A or R32[*1]					
Power Supply	Source		Outdoor Power supply					
	Outdoor (V / Phase / Hz)		230 / Single / 50					
Cooling	Design load	kW	-	2.0	2.5	2.5	3.5	3.5
	Annual electricity consumption [*2]	kWh/a	-	81	101	101	142	142
	SEER [*4]		-	8.6	8.6	8.6	8.6	8.6
		Energy efficiency class	-	A+++	A+++	A+++	A+++	A+++
	Capacity	Rated kW	-	2.0	2.5	2.5	3.5	3.5
		Min-Max kW	-	0.6-2.7	0.9-3.4	0.9-3.4	1.1-3.8	1.1-3.8
	Total Input	Rated kW	-	0.460	0.600	0.600	0.990	0.990
Heating (Average Season)[*5]	Design load	kW	-	2.3 (-10°C)	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)
	Declared Capacity	at reference design temperature kW	-	2.3 (-10°C)	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)
		at bivalent temperature kW	-	2.3 (-10°C)	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)
		at operation limit temperature kW	-	2.2 (-15°C)	2.4 (-15°C)	2.2 (-20°C)	2.6 (-15°C)	2.4 (-20°C)
	Back up heating capacity	kW	-	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
	Annual electricity consumption [*2]	kWh/a	-	766	698	703	862	873
	SCOP [*4]		-	4.2	4.8	4.7	4.7	4.6
		Energy efficiency class	-	A+	A++	A++	A++	A++
	Capacity	Rated kW	-	2.5	3.2	3.2	4.0	4.0
		Min-Max kW	-	0.5-3.5	1.0-4.1	1.0-4.1	1.3-4.6	1.3-4.6
	Total Input	Rated kW	-	0.600	0.780	0.780	1.030	1.030
Operating Current (Max)		A	-	7.0	7.1	7.1	8.5	8.5
Indoor Unit	Input	Rated kW	0.017	0.019	0.026	0.026	0.026	0.026
	Operating Current (Max)	A	0.17	0.2	0.3	0.3	0.3	0.3
	Dimensions	H*W*D mm	250-760-178	250-760-178	299-798-219	299-798-219	299-798-219	299-798-219
	Weight	kg	8.2	8.2	10.5	10.5	10.5	10.5
	Air Volume (SLo-Lo-Mid-Hi-SHi[*3])(Dry/Wet)	Cooling m³/min	3.5 - 3.9 - 4.6 - 5.5 - 6.4	3.5 - 3.9 - 4.6 - 5.5 - 6.9	4.9 - 5.9 - 7.1 - 8.7 - 11.4	4.9 - 5.9 - 7.1 - 8.7 - 11.4	4.9 - 5.9 - 7.1 - 8.7 - 11.4	4.9 - 5.9 - 7.1 - 8.7 - 11.4
		Heating m³/min	3.7 - 4.4 - 5.0 - 6.0 - 6.8	3.7 - 4.4 - 5.0 - 6.0 - 7.3	4.9 - 5.9 - 7.3 - 8.9 - 12.9	4.9 - 5.9 - 7.3 - 8.9 - 12.9	4.9 - 5.9 - 7.3 - 8.9 - 12.9	4.9 - 5.9 - 7.3 - 8.9 - 12.9
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi[*3])	Cooling dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 - 24 - 30 - 36 - 42	19 - 24 - 30 - 36 - 42	19 - 24 - 30 - 36 - 42	19 - 24 - 30 - 36 - 42
		Heating dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 - 24 - 34 - 39 - 45	19 - 24 - 34 - 39 - 45	19 - 24 - 31 - 38 - 45	19 - 24 - 31 - 38 - 45
	Sound Level (PWL)	Cooling dB(A)	59	60	57	57	57	57
Outdoor Unit	Dimensions	H*W*D mm	-	550-800-285	550-800-285	550-800-285	550-800-285	550-800-285
	Weight	kg	-	31	31	31	31	31
	Air Volume	Cooling m³/min	-	32.2	32.2	32.2	32.2	32.2
		Heating m³/min	-	29.8	29.8	29.8	33.8	33.8
	Sound Level (SPL)	Cooling dB(A)	-	47	47	47	49	49
		Heating dB(A)	-	48	48	48	50	50
	Sound Level (PWL)	Cooling dB(A)	-	59	59	59	61	61
	Operating Current (Max)	A	-	6.8	6.8	6.8	8.2	8.2
	Breaker Size	A	-	10	10	10	10	10
Ext. Piping	Diameter	Liquid/Gas mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
	Max.Length	Out-In m	-	20	20	20	20	20
	Max.Height	Out-In m	-	12	12	12	12	12
Guaranteed Operating Range (Outdoor)	Cooling	°C	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Heating	°C	-	-15 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +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 51-52 for heating (warmer season) specifications.

MSZ–A SERIES

Indoor Unit R32 R410A
※VGK model Wi-Fi Interface built-in.

MSZ-AP25/35/42/50VG(K)

GOOD DESIGN

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MSZ-AP60/71VG(K)

Outdoor Unit R32

MUZ-AP25/35/42VG(H)   MUZ-AP50VG(H) / 60VG

MUZ-AP71VG

Remote Controller

Type	Inverter Heat Pump					
Indoor Unit	MSZ-AP42VG(K)	MSZ-AP42VG(K)	MSZ-AP50VG(K)	MSZ-AP50VG(K)	MSZ-AP60VG(K)	MSZ-AP71VG(K)
Outdoor Unit	MUZ-AP42VG	MUZ-AP42VGH	MUZ-AP50VG	MUZ-AP50VGH	MUZ-AP60VG	MUZ-AP71VG
Refrigerant	Single: R32[*1] / Multi: R410A or R32[*1]				Single: R32[*1]	
Power Supply Source	Outdoor Power supply					
Outdoor (V / Phase / Hz)	230 / Single / 50					

Cooling	Design load		kW	4.2	4.2	5.0	5.0	6.1	7.1
	Annual electricity consumption [*2]		kWh/a	188	188	236	236	288	345
	SEER [*4]			7.8	7.8	7.4	7.4	7.4	7.2
		Energy efficiency class		A++	A++	A++	A++	A++	A++
	Capacity	Rated	kW	4.2	4.2	5.0	5.0	6.1	7.1
		Min-Max	kW	0.9-4.5	0.9-4.5	1.4-5.4	1.4-5.4	1.4-7.3	2.0-8.7
	Total Input	Rated	kW	1.300	1.300	1.550	1.550	1.590	2.010
Heating (Average Season)[*5]	Design load		kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)
	Declared Capacity	at reference design temperature	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)
		at bivalent temperature	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)
		at operation limit temperature	kW	4.2 (-15°C)	3.8 (-20°C)	4.7 (-15°C)	4.2 (-20°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)	0.0 (-10°C)	0.0 (-10°C)
	Annual electricity consumption [*2]		kWh/a	1120	1134	1250	1275	1398	2132
	SCOP [*4]			4.7	4.6	4.7	4.6	4.6	4.4
		Energy efficiency class		A++	A++	A++	A++	A++	A+
	Capacity	Rated	kW	5.4	5.4	5.8	5.8	6.8	8.1
		Min-Max	kW	1.3-6.0	1.3-6.0	1.4-7.3	1.4-7.3	2.0-8.6	2.2-10.3
	Total Input	Rated	kW	1.490	1.490	1.600	1.600	1.670	2.120
Operating Current (Max)		A	9.9	9.9	13.6	13.6	14.1	16.4

Indoor Unit								
Input	Rated	kW	0.032	0.032	0.032	0.032	0.049	0.045
Operating Current (Max)		A	0.3	0.3	0.3	0.3	0.5	0.4
Dimensions	H*W*D	mm	299-798-219	299-798-219	299-798-219	299-798-219	325-1100-257	325-1100-257
Weight		kg	10.5	10.5	10.5	10.5	16.0	17.0
Air Volume (SLo-Lo-Mid-Hi-SHi[*3] (Dry/Wet))	Cooling	m³/min	5.4 - 6.5 - 7.7 - 9.3 - 11.4	5.4 - 6.5 - 7.7 - 9.3 - 11.4	6.0 - 7.2 - 8.4 - 10.0 - 12.6	6.0 - 7.2 - 8.4 - 10.0 - 12.6	9.4 - 11.0 - 13.2 - 16.0 - 18.9	9.6 - 11.5 - 13.2 - 15.3 - 18.6
	Heating	m³/min	5.3 - 6.1 - 7.7 - 9.4 - 14.0	5.3 - 6.1 - 7.7 - 9.4 - 14.0	5.6 - 6.5 - 8.2 - 10.0 - 14.0	5.6 - 6.5 - 8.2 - 10.0 - 14.0	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 - 29 - 34 - 38 - 42	21 - 29 - 34 - 38 - 42	28 - 33 - 36 - 40 - 44	28 - 33 - 36 - 40 - 44	29 - 37 - 41 - 45 - 48	30 - 37 - 41 - 45 - 49
	Heating	dB(A)	21 - 29 - 35 - 40 - 45	21 - 29 - 35 - 40 - 45	28 - 33 - 38 - 43 - 48	28 - 33 - 38 - 43 - 48	30 - 37 - 41 - 45 - 48	30 - 37 - 41 - 45 - 51
Sound Level (PWL)	Cooling	dB(A)	57	57	58	58	65	65

Outdoor Unit								
Dimensions	H*W*D	mm	550-800-285	550-800-285	714-800-285	714-800-285	714-800-285	880-840-330
Weight		kg	35	35	40	40	40	55
Air Volume	Cooling	m³/min	30.4	30.4	40.5	40.5	52.1	54.1
	Heating	m³/min	32.7	32.7	40.5	40.5	52.1	47.9
Sound Level (SPL)	Cooling	dB(A)	50	50	52	52	56	56
	Heating	dB(A)	51	51	52	52	57	55
Sound Level (PWL)	Cooling	dB(A)	61	61	64	64	69	69
Operating Current (Max)		A	9.6	9.6	13.3	13.3	13.6	16.0
Breaker Size		A	10	10	16	16	16	20

Ext. Piping								
Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7
Max.Length	Out-In	m	20	20	20	20	30	30
Max.Height	Out-In	m	12	12	12	12	15	15
Guaranteed Operating Range (Outdoor)	Cooling	℃	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Heating	℃	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24

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(*5) Please see page 51-52 for heating (warmer season) specifications.

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