

4-indoor units with AE-XM24HR

Operating status	Indoor unit combination				Cooling capacity (kW)					Heating capacity (kW)					Power consumption (W)	Rating (Min.–Max.)
	A	B	C	D	A	B	C	D	Rating (Min.–Max.)	A	B	C	D	Rating (Min.–Max.)	Cool	Heat
4-indoor unit operation	12	9	7	7	2.40	1.80	1.40	1.40	7.0 (3.0–8.2)	2.74	2.06	1.60	1.60	8.0 (3.0–9.2)	2,180 (600–2,980)	2,000 (560–2,560)
	12	7	7	7	2.55	1.48	1.48	1.48	7.0 (3.0–8.2)	2.91	1.70	1.70	1.70	8.0 (3.0–9.2)	2,180 (600–2,980)	2,000 (560–2,560)
	9	9	9	9	1.75	1.75	1.75	1.75	7.0 (3.0–8.2)	2.00	2.00	2.00	2.00	8.0 (3.0–9.2)	2,180 (600–2,980)	2,000 (560–2,560)
	9	9	9	7	1.85	1.85	1.85	1.44	7.0 (3.0–8.2)	2.12	2.12	2.12	1.65	8.0 (3.0–9.2)	2,180 (600–2,980)	2,000 (560–2,560)
	9	9	7	7	1.97	1.97	1.53	1.53	7.0 (3.0–8.2)	2.25	2.25	1.75	1.75	8.0 (3.0–9.2)	2,180 (600–2,980)	2,000 (560–2,560)
	9	7	7	7	2.10	1.63	1.63	1.63	7.0 (3.0–8.2)	2.40	1.87	1.87	1.87	8.0 (3.0–9.2)	2,180 (600–2,980)	2,000 (560–2,560)
	7	7	7	7	1.75	1.75	1.75	1.75	7.0 (3.0–8.2)	2.00	2.00	2.00	2.00	8.0 (3.0–9.2)	2,180 (600–2,980)	2,000 (560–2,560)
3-indoor unit operation	12	9	7	*	2.91	2.19	1.70	*	6.8 (2.7–7.4)	3.30	2.50	2.00	*	7.8 (2.4–8.8)	2,200 (530–2,900)	2,500 (520–2,650)
	12	7	7	*	3.14	1.83	1.83	*	6.8 (2.7–7.4)	3.60	2.10	2.10	*	7.8 (2.4–8.8)	2,200 (530–2,900)	2,500 (520–2,650)
	9	9	9	*	2.27	2.27	2.27	*	6.8 (2.7–7.4)	2.60	2.60	2.60	*	7.8 (2.4–8.8)	2,200 (530–2,900)	2,500 (520–2,650)
	9	9	7	*	2.45	2.45	1.90	*	6.8 (2.7–7.4)	2.80	2.80	2.20	*	7.8 (2.4–8.8)	2,200 (530–2,900)	2,500 (520–2,650)
	9	7	7	*	2.50	1.95	1.95	*	6.8 (2.7–7.4)	3.10	2.40	2.40	*	7.8 (2.4–8.8)	2,200 (530–2,900)	2,500 (520–2,650)
	7	7	7	*	1.97	1.97	1.97	*	5.9 (2.7–7.3)	2.40	2.40	2.40	*	7.1 (2.4–8.8)	1,750 (530–2,760)	2,180 (520–2,650)
2-indoor unit operation	12	9	*	*	3.20	2.40	*	*	5.6 (2.0–6.8)	4.20	3.10	*	*	7.3 (1.8–7.5)	1,820 (430–2,700)	2,400 (450–2,600)
	12	7	*	*	3.35	1.95	*	*	5.3 (2.0–6.7)	4.50	2.60	*	*	7.1 (1.8–7.5)	1,590 (430–2,630)	2,380 (450–2,600)
	9	9	*	*	2.50	2.50	*	*	5.0 (2.0–6.3)	3.20	3.20	*	*	6.4 (1.8–7.5)	1,400 (430–2,400)	2,050 (450–2,600)
	9	7	*	*	2.59	2.01	*	*	4.6 (2.6–5.9)	3.40	2.70	*	*	6.1 (1.8–7.5)	1,230 (430–2,000)	1,900 (450–2,600)
	7	7	*	*	2.00	2.00	*	*	4.0 (2.6–5.3)	2.70	2.70	*	*	5.3 (1.8–7.3)	1,040 (430–1,700)	1,580 (450–2,300)
1-indoor unit operation	12	*	*	*	3.40	*	*	*	3.4 (1.6–4.0)	3.80	*	*	*	3.8 (1.1–5.2)	900 (400–1,320)	1,750 (400–2,400)
	9	*	*	*	2.60	*	*	*	2.6 (1.6–3.3)	2.90	*	*	*	2.9 (1.1–4.0)	650 (400–930)	1,130 (400–2,050)
	7	*	*	*	2.00	*	*	*	2.0 (1.6–2.7)	2.40	*	*	*	2.4 (1.1–3.4)	500 (400–700)	800 (400–1,450)

\*Connected but not operated

4-indoor units with AE-XM30GR

Operating status	Indoor unit combination				Cooling capacity (kW)					Heating capacity (kW)					Power consumption (W)	Rating (Min.–Max.)
	A	B	C	D	A	B	C	D	Rating (Min.–Max.)	A	B	C	D	Rating (Min.–Max.)	Cool	Heat
4-indoor unit operation	18	9	9	7	3.52	1.76	1.76	1.37	8.40 (4.30–9.00)	3.77	1.88	1.88	1.47	9.00 (4.40–10.60)	2,990 (1,070–3,490)	2,400 (940–3,060)
	18	9	7	7	3.69	1.84	1.43	1.43	8.40 (4.30–9.00)	3.95	1.98	1.54	1.54	9.00 (4.40–10.60)	2,990 (1,070–3,490)	2,400 (940–3,060)
	18	7	7	7	3.88	1.51	1.51	1.51	8.40 (4.30–9.00)	4.15	1.62	1.62	1.62	9.00 (4.40–10.60)	2,990 (1,070–3,490)	2,400 (940–3,060)
	12	12	7	7	2.65	2.65	1.55	1.55	8.40 (4.30–9.00)	2.84	2.84	1.66	1.66	9.00 (4.40–10.60)	2,990 (1,070–3,490)	2,400 (940–3,060)
	12	9	9	7	2.73	2.04	2.04	1.59	8.40 (4.30–9.00)	2.92	2.19	2.19	1.70	9.00 (4.40–10.60)	2,990 (1,070–3,490)	2,400 (940–3,060)
	12	9	7	7	2.88	2.16	1.68	1.68	8.40 (4.30–9.00)	3.09	2.31	1.80	1.80	9.00 (4.40–10.60)	2,990 (1,070–3,490)	2,400 (940–3,060)
	12	7	7	7	3.06	1.78	1.78	1.78	8.40 (4.30–9.00)	3.27	1.91	1.91	1.91	9.00 (4.40–10.60)	2,990 (1,070–3,490)	2,400 (940–3,060)
	9	9	9	9	2.10	2.10	2.10	2.10	8.40 (4.30–9.00)	2.25	2.25	2.25	2.25	9.00 (4.40–10.60)	2,990 (1,070–3,490)	2,400 (940–3,060)
	9	9	9	7	2.22	2.22	2.22	1.74	8.40 (4.30–9.00)	2.38	2.38	2.38	1.85	9.00 (4.40–10.60)	2,990 (1,070–3,490)	2,400 (940–3,060)
	9	9	7	7	2.36	2.36	1.84	1.84	8.40 (4.30–9.00)	2.53	2.53	1.97	1.97	9.00 (4.40–10.60)	2,990 (1,070–3,490)	2,400 (940–3,060)
	9	7	7	7	2.52	1.96	1.96	1.96	8.40 (4.30–9.00)	2.70	2.10	2.10	2.10	9.00 (4.40–10.60)	2,990 (1,070–3,490)	2,400 (940–3,060)
	7	7	7	7	2.00	2.00	2.00	2.00	8.00 (4.30–9.00)	2.13	2.13	2.13	2.13	8.50 (4.40–9.80)	2,780 (1,070–3,490)	2,230 (940–2,850)
	18	12	7	*	4.04	2.69	1.57	*	8.30 (4.30–8.90)	4.33	2.89	1.68	*	8.90 (4.40–10.50)	2,990 (1,070–3,490)	2,400 (940–3,060)
	18	9	9	*	4.15	2.08	2.08	*	8.30 (4.30–8.90)	4.45	2.33	2.33	*	8.90 (4.40–10.50)	2,990 (1,070–3,490)	2,400 (940–3,060)
	18	9	7	*	4.39	2.20	1.71	*	8.30 (4.30–8.90)	4.71	2.36	1.83	*	8.90 (4.40–10.50)	2,990 (1,070–3,490)	2,400 (940–3,060)
3-indoor unit operation	18	7	7	*	4.67	1.82	1.80	*	8.30 (4.30–8.90)	5.01	1.95	1.95	*	8.90 (4.40–10.50)	2,990 (1,070–3,490)	2,400 (940–3,060)
	12	12	7	*	3.00	3.00	1.80	*	7.80 (3.60–8.40)	3.40	3.40	2.00	*	8.80 (3.60–10.00)	2,990 (880–3,300)	2,650 (830–3,150)
	12	9	9	*	3.20	2.30	2.30	*	7.80 (3.60–8.40)	3.60	2.60	2.60	*	8.80 (3.60–10.00)	2,990 (880–3,300)	2,650 (830–3,150)
	12	9	7	*	3.30	2.40	1.90	*	7.60 (3.60–8.40)	3.80	2.80	2.20	*	8.80 (3.60–10.00)	2,800 (880–3,300)	2,650 (830–3,150)
	12	7	7	*	3.40	1.90	1.90	*	7.20 (3.60–8.40)	3.90	2.30	2.30	*	8.50 (3.60–10.00)	2,550 (880–3,300)	2,500 (830–3,150)
	9	9	9	*	2.50	2.50	2.50	*	7.40 (3.60–8.40)	2.90	2.90	2.90	*	8.80 (3.60–10.00)	2,650 (880–3,300)	2,650 (830–3,150)
	9	9	7	*	2.50	2.50	2.00	*	7.00 (3.60–8.40)	3.00	3.00	2.20	*	8.20 (3.60–10.00)	2,400 (880–3,300)	2,400 (830–3,150)
	9	7	7	*	2.60	2.00	2.00	*	6.60 (3.60–8.20)	3.00	2.40	2.40	*	7.80 (3.60–9.40)	2,160 (880–3,200)	2,150 (830–2,990)
	7	7	7	*	2.00	2.00	2.00	*	6.00 (3.60–7.80)	2.40	2.40	2.40	*	7.10 (3.60–8.80)	1,920 (880–3,100)	1,870 (830–2,660)
	18	12	*	*	4.56	3.04	*	*	7.60 (3.60–8.00)	4.86	3.24	*	*	8.10 (3.60–9.00)	2,990 (880–3,400)	2,450 (830–3,300)
	18	9	*	*	4.80	2.40	*	*	7.20 (3.60–8.00)	5.40	2.70	*	*	8.10 (3.60–9.00)	2,600 (880–3,400)	2,450 (830–3,300)
	18	7	*	*	4.90	1.90	*	*	6.80 (3.60–8.00)	5.54	2.16	*	*	7.70 (3.60–9.00)	2,350 (880–3,400)	2,200 (830–3,300)
2-indoor unit operation	12	12	*	*	3.10	3.10	*	*	6.20 (2.60–7.50)	3.80	3.80	*	*	7.60 (2.60–8.00)	2,250 (700–3,700)	2,600 (730–2,900)
	12	9	*	*	3.20	2.40	*	*	5.60 (2.60–7.10)	3.80	2.90	*	*	6.70 (2.60–8.00)	1,950 (700–3,200)	2,250 (730–2,900)
	12	7	*	*	3.30	2.00	*	*	5.30 (2.60–6.80)	3.90	2.20	*	*	6.10 (2.60–8.00)	1,720 (700–2,770)	1,900 (730–2,900)
	9	9	*	*	2.50	2.50	*	*	5.00 (2.60–6.30)	2.90	2.90	*	*	5.80 (2.60–8.00)	1,630 (700–2,600)	1,850 (730–2,900)
	9	7	*	*	2.60	2.00	*	*	4.60 (2.60–5.90)	3.00	2.30	*	*	5.30 (2.60–7.30)	1,400 (700–2,250)	1,510 (730–2,400)
	7	7	*	*	2.00	2.00	*	*	4.00 (2.60–5.30)	2.40	2.40	*	*	4.80 (2.60–6.40)	1,200 (700–1,900)	1,350 (730–2,000)
	18	*	*	*	5.00	*	*	*	5.00 (2.60–5.70)	6.20	*	*	*	6.20 (2.60–7.40)	1,600 (700–2,400)	2,200 (730–3,000)
	12	*	*	*	3.40	*	*	*	3.40 (1.80–4.00)	3.80	*	*	*	3.80 (1.80–5.20)	1,100 (630–1,450)	1,600 (640–2,200)
1-indoor unit operation	9	*	*	*	2.60	*	*	*	2.60 (1.80–3.30)	2.90	*	*	*	2.90 (1.80–4.00)	790 (630–1,080)	1,130 (640–1,750)
	7	*	*	*	2.00	*	*	*	2.00 (1.80–2.70)	2.40	*	*	*	2.40 (1.80–3.40)	750 (630–850)	870 (640–1,350)

\*Connected but not operated

\*1 Rating Conditions  
Standard: EN 14511; 230 V, 50 Hz (Except portable air conditioners)  
Inside Air Temperature: 27°C D.B. 19°C W.B. (Cooling)  
Outside Air Temperature: 35°C D.B. 24°C W.B. (Cooling)  
20°C D.B. (Heating)  
7°C D.B. 6°C W.B. (Heating)  
\* Heating capacity is lowered with a decrease in outdoor temperature.  
\* Maximum data are measured under the test conditions listed right according to EN60335-2-40

Indoor units

7: AY-XPC7JHR, AY-XPC7JR, AY-XPM7FR  
9: AY-XPC9JHR, AY-XPC9JR, AY-XPM9FR, GS-XPM9FGR  
12: AY-XPC12JHR, AY-XPC12JR, AY-XPM12FR, GS-XPM12FGR  
18: AY-XPM18HR, GS-XPM18FGR, AY-XPC18LR

\* Design and specifications are current as of January 2010, but are subject to change without prior notice.  
\* Actual colors may differ slightly from colors in this catalog. Not all models are available in all countries.  
The technical specifications were state of the art at the time of going to press and are subject to change without notice.

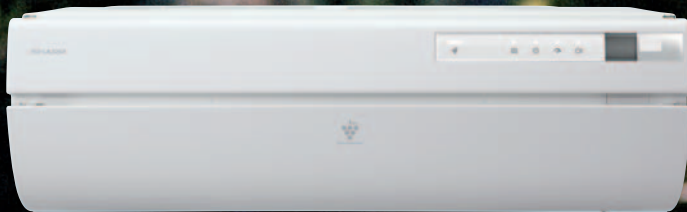


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Air Conditioners 2010



Air Conditioners  
Wall mounted  
Floor Standing  
Floor/Ceiling  
Duct/Cassette

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Showing concern for the environment while providing you comfort and wellness.

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Today's product development and manufacture must be carried out with a commitment to the environment. No matter how convenient the products, they are of no use if they harm the environment and human health.

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Providing comfort and a healthy lifestyle

Sharp puts a high priority on increasing consumer convenience as well. We devote our efforts toward making sure that our products bring the most value to our customers in terms of health and comfort. This is what drove us to develop Plasmacluster technology—our unceasing drive to create products that improve the lives of those who buy them. This, combined with our efforts toward environmentally sustainable lifestyles, enables us to create a number of products and solutions for all of your lifestyle needs.

Sharp's air conditioner lineup

Wall mounted

Floor standing

Floor/Ceiling

Duct

Cassette



So what is Sharp Plasmacluster technology?

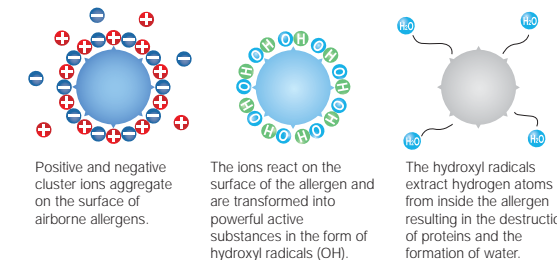
#### Plasmacluster Ions

Positive and negative ions are remarkably effective against harmful airborne mold spores, allergens (mite, pollen), and viruses. The effects have been proven at academic institutions around the world. Incorporated not only in a variety of Sharp's own products, from air conditioners to refrigerators, the Plasmacluster technology has also been adopted by many other industries in a variety of products, from automobiles to elevators and toilets.



Plasmacluster Ion generator

#### Schematic Illustration of the Effects of Plasmacluster Ions against Airborne Allergens

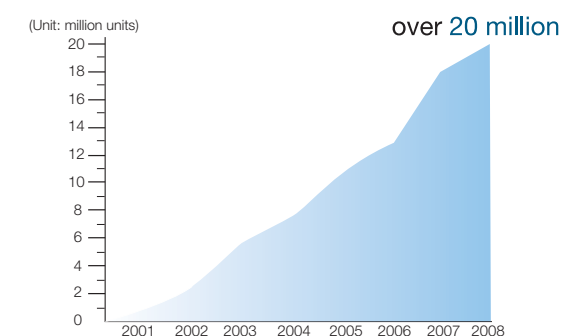


\* Prevents an allergic reaction from occurring by stopping the allergen (antigen) from combining with the IgE antibody.

■ Test method: A Plasmacluster Ion generator is placed in a 1 m<sup>3</sup> box. Mite powder is then suspended in the air inside the box followed by the release of Plasmacluster Ions. The action of the allergens in the air is then measured. ■ Test performed by the Graduate School of Advanced Sciences of Matter at Hiroshima University in Japan.

#### Used in over 20 million products in 8 years

In the eight years since its release, Plasmacluster Ion-equipped products have exceeded the 20-million-unit mark. Sharp aims to bring the benefits of Plasmacluster Ions to every air space.

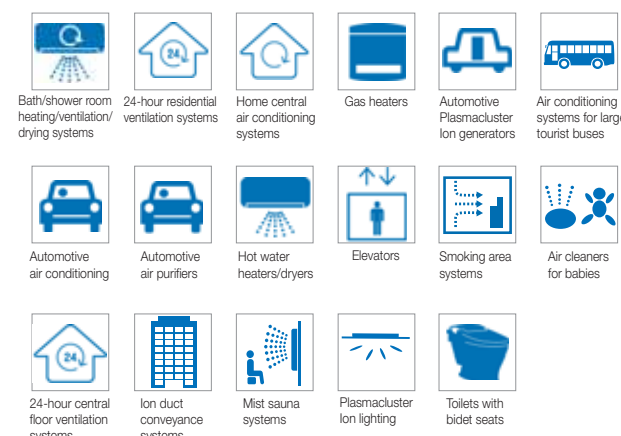


#### Third-party Verifications for Plasmacluster Ion Technology



#### Used in a variety of industries

Plasmacluster Ion technology is recognized and used across a wide range of industries. In collaboration with a number of companies, Sharp has expanded the Plasmacluster Ion technology to the following industries:



#### Proven in 13 Institutions in Japan and around the World

Test substance	Tested by:
Airborne viruses	<ul style="list-style-type: none"> <li>Kitasato Research Center of Environmental Sciences (Japan)</li> <li>Seoul University (Korea)</li> <li>Shanghai Municipal Center for Disease Control and Prevention</li> <li>Kitasato Institute Medical Center Hospital, Kitasato University (Japan)</li> <li>Retroscreen Virology, Ltd. (UK)</li> </ul>
Airborne allergens	<ul style="list-style-type: none"> <li>Hiroshima University Graduate School of Advanced Sciences of Matter (Japan)</li> <li>Asthma Society of Canada</li> </ul>
Airborne mold	<ul style="list-style-type: none"> <li>Ishikawa Health Service Association (Japan)</li> <li>Professor Gerhard Artmann, Aachen University of Applied Sciences (Germany)</li> </ul>
Airborne microbes	<ul style="list-style-type: none"> <li>Ishikawa Health Service Association (Japan)</li> <li>Shanghai Municipal Center for Disease Control and Prevention</li> <li>Kitasato Research Center of Environmental Sciences (Japan)</li> <li>Kitasato Institute Medical Center Hospital, Kitasato University (Japan)</li> <li>Professor Gerhard Artmann, Aachen University of Applied Sciences (Germany)</li> <li>Harvard School of Public Health (USA)</li> </ul>
Adhering odor	<ul style="list-style-type: none"> <li>Japan Spinners Inspecting Foundation</li> </ul>
Adhering mold	<ul style="list-style-type: none"> <li>The University Lübeck (Germany)</li> <li>Japan Food Research Laboratories</li> </ul>

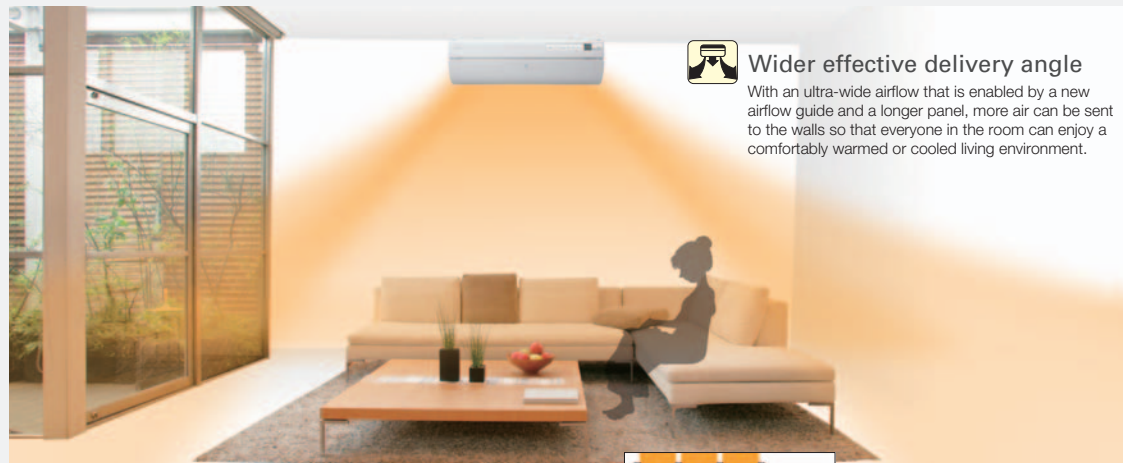
\* Validation test results for other test substances carried out by the same test institution at the same time have not been shown.



# Delivering Comfort

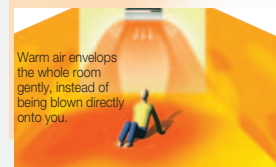
To a greater effective area, using precision technology

*An increased effective area and precise airflow control envelop you in comfortable air, when you need it*



## Wider effective delivery angle

With an ultra-wide airflow that is enabled by a new airflow guide and a longer panel, more air can be sent to the walls so that everyone in the room can enjoy a comfortably warmed or cooled living environment.



Warm air envelops the whole room gently, instead of being blown directly onto you.



The entire room is cooled comfortably with no uncomfortable blasts of cold air.



A new airflow guide creates a smoother flow of air, minimizing losses in air volume.

**In the wintertime**  
Warm air, sent down toward the floor and outward to the walls, warms the entire room evenly.

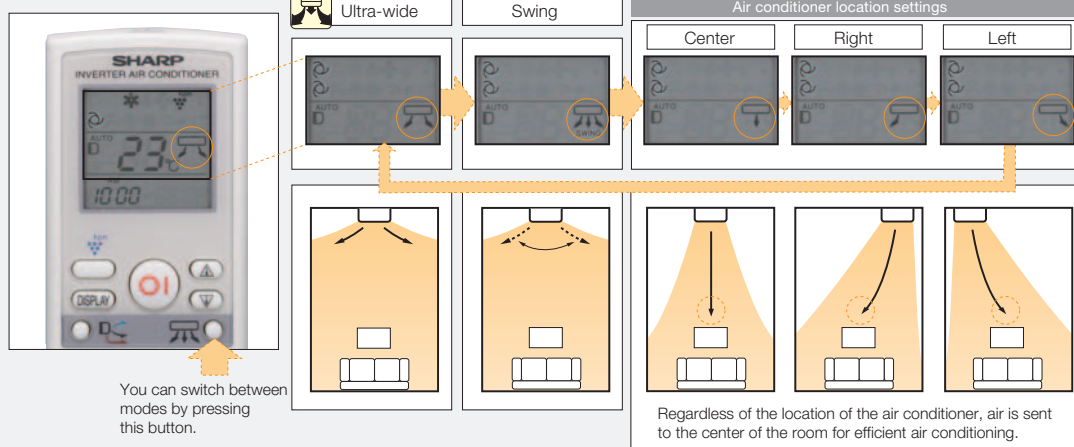
**In the summertime**  
Cool air, sent up toward the ceiling and outward to the walls, cools the entire room gently.

A longer panel means a larger amount of air can be sent toward the walls, keeping the air from pooling near the panel and becoming inactive.



## Air flows are easily recognized and controlled

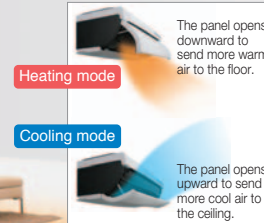
Airflow patterns can be changed to offer precise control over any type of living space.



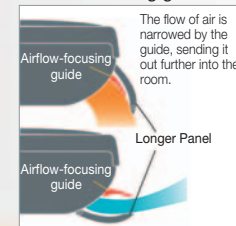
## Increased delivery range

With the Long Coanda Airflow System, air travels further than with the regular Coanda Airflow System, even when you set the unit to run at low air volumes. This saves energy and increases comfort.

### The longer panel opens downward or upward



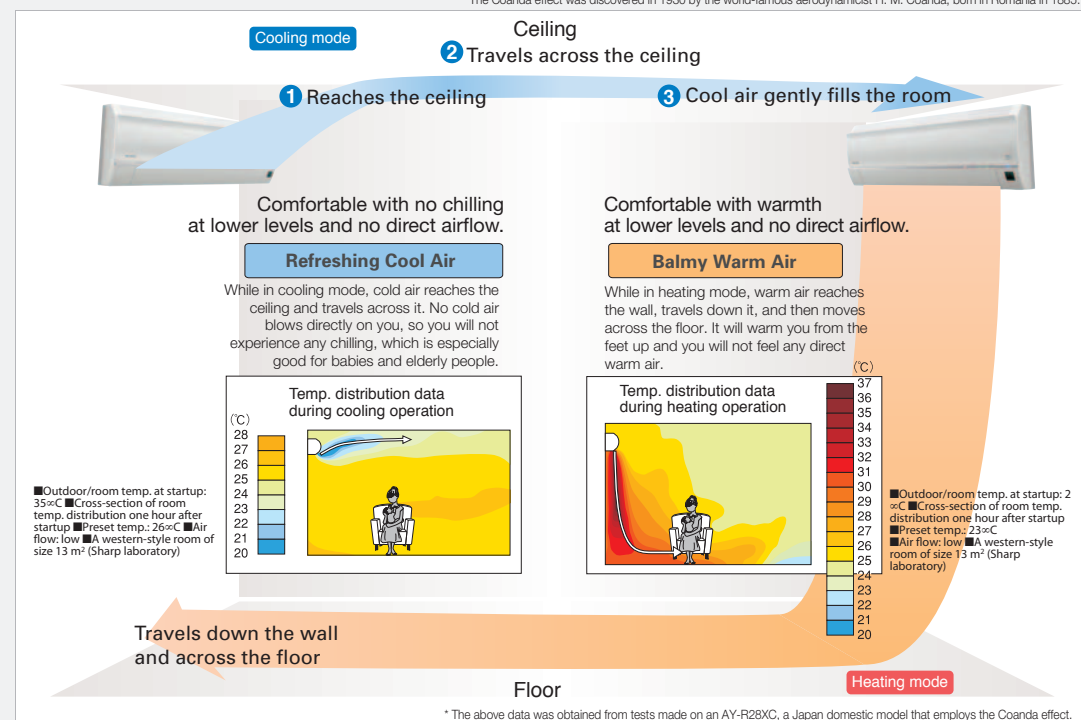
### Airflow-focusing guide



## The Coanda Effect: Creating the most comfortable living space possible

Sharp's air conditioners take advantage of a tendency in nature that has been termed the "Coanda effect" to heat and cool air evenly. The Coanda effect is the observed tendency of moving gas or fluid leaving a nozzle of some kind to cling to and follow nearby surfaces. Sharp air conditioners utilize this tendency by aiming the airflow at room surfaces, such as walls or ceilings, to more precisely control and direct the flow of air.

\* The Coanda effect was discovered in 1930 by the world-famous aerodynamicist H. M. Coanda, born in Romania in 1885.







# Plasmacluster Ion Technology

Making the air you breathe safer and cleaner, for you and your family



## Plasmacluster Ions are effective against airborne contaminants and mold.

Sharp's Plasmacluster Ion system produces positive and negative ions, which are remarkably effective against a variety of airborne contaminants and impurities such as mold, viruses and allergens. In pursuit of cleanliness and comfort, this outstanding system offers you the finest air quality for your living environment.

### Airborne contaminants and mold reduced by Plasmacluster Ions



Airborne mold

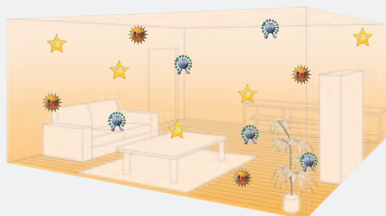


Airborne allergens

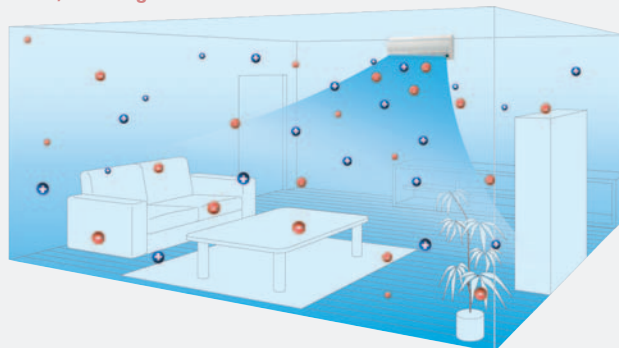


Airborne viruses

The air inside a typical home contains a lot of mold and viruses.



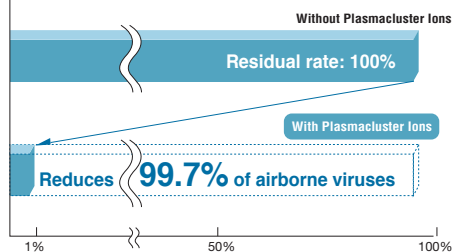
Plasmacluster Ions spread throughout the whole room, cleaning the air.



## Effective against Airborne Viruses

### Effects on Airborne Viruses

(Actual reduction rate may differ according to room conditions and the model in use)



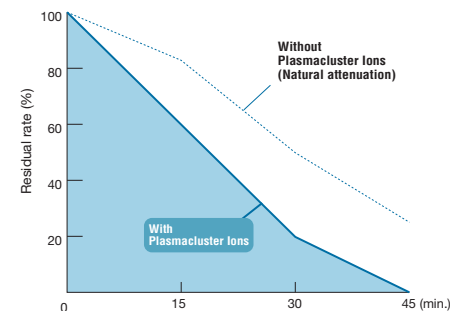
While the Plasmacluster technology can remove suspended viruses and other contaminants, it cannot create a completely sterile environment. Sharp does not guarantee the ability of the Plasmacluster technology to prevent microbial infection.

■ Test method: A Plasmacluster Ion generator is placed in a 1 m<sup>3</sup> box. Airborne viruses are suspended in the air inside the box followed by the release of Plasmacluster Ions. ■ Reduction method: Generate Plasmacluster Ions in the air. ■ Test performed by the Kitasato Institute Medical Center Hospital and Kitasato Research Center of Environmental Sciences in Japan. ■ Test report No.: 00313



## Effective against Airborne Mold

### Effects on Airborne Mold



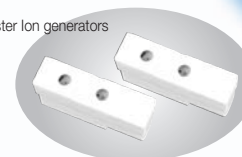
■ Mode of operation: Plasmacluster Ion generator single operation in an experimental room of approximately 13.0 square meters. ■ Temperature inside the room: 21°C. Humidity: 53% RH. ■ Method of measurement: Air samples measuring the quantity of mold were taken from the center inside the room. ■ Reduction method: Without filter, generate Plasmacluster Ions in the air. ■ Test performed by the Ishikawa Health Service Association in Japan. ■ Test report No.: 1503691

## Twin Plasmacluster generators deliver twice the power!

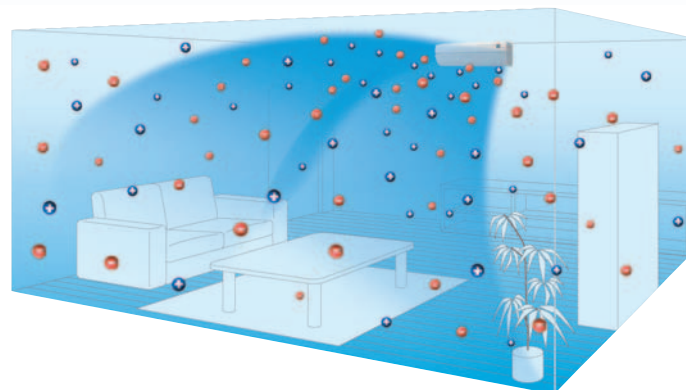
(AY-XPC7/9/12JHR only)

Two generators produce a much higher volume of Plasmacluster Ions than one alone. The ions spread out through the room, absorbing and deactivating odors, viruses, and mold to create a living environment, filled with fresh, clean air.

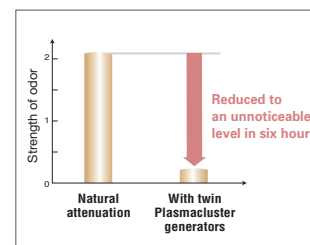
Twin Plasmacluster Ion generators



More Plasmacluster Ions fill the room!



Reduction in clinging room odors using twin Plasmacluster generators



■ Test method: Using a six-level odor intensity indication method, the effectiveness of deodorizing a piece of fabric impregnated with tobacco smoke odor was evaluated in an approx. 20 m<sup>2</sup> test chamber. ■ Test performed by Japan Spinners Inspecting Foundation. ■ Test report No.: 070356-2

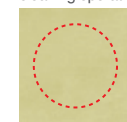
## Self-cleaning Function

### Plasmacluster Ions prevents the growth of mold inside the air conditioner.

While air blow and heating (dry) operations are performed for about 40 minutes, Plasmacluster Ions are blown through the interior of indoor equipment. This prevents odor-causing mold from growing on the surface of the heat exchanger. (Note: Mold already formed cannot be removed.)

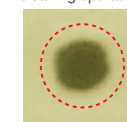
### Test results using a visual mold sensor

With internal cleaning operation



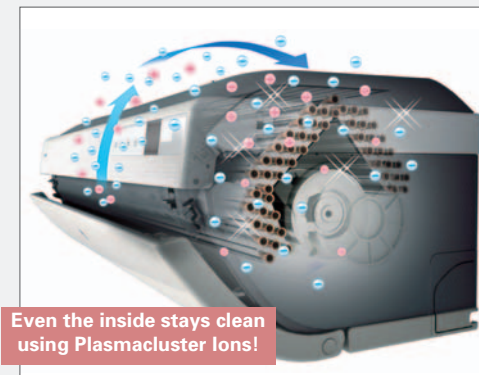
Undetected by mold sensor

Without internal cleaning operation



Detected by mold sensor

Test method: Measurements taken at Sharp's laboratory. At an outdoor/room temp. of 27°C and humidity of 70%, a cycle consisting of one hour of cooling operation, 40 minutes of internal cleaning, and 20 minutes off was conducted for 14 days (40 cycles). Visual mold sensor manufactured by the Institute of Environmental Biology.



Even the inside stays clean using Plasmacluster Ions!



## Quiet, Environmentally Friendly Operation

Increased efficiency and reduced power consumption put Sharp products in the industry's top class

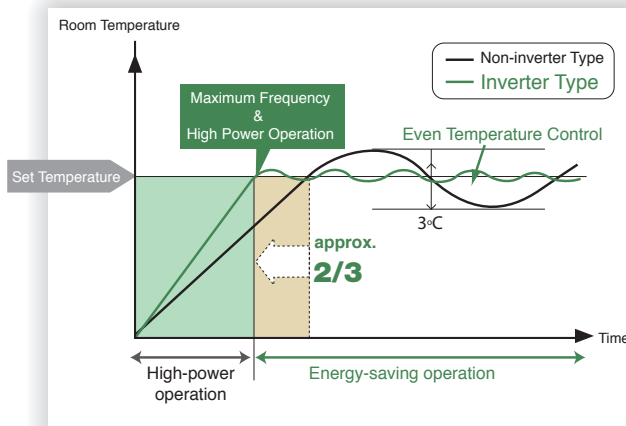
Sharp's unsurpassed efforts resulted in the development of advanced technologies that contribute to highly efficient operation and drastically reduced energy consumption.



### Inverter technology

■ Reaches preset temperatures in approx. **2/3** the time  
(Chart below)

While inverter air conditioners have a full-output operation mode, they drastically reduce energy consumption when used in energy-saving operation mode. This is thanks to inverter circuitry, which modifies and maintains room temperature by switching the compressor between high and low operation modes, instead of switching it on and off completely as non-inverter models do. The inverter model keeps the compressor running and simply reduces output when the room reaches the target temperature, enabling comfortable, even temperature control.



### Quiet operation

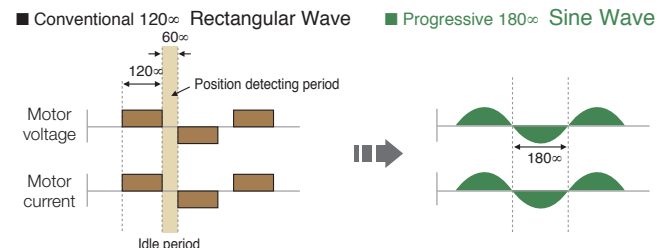
Operational noise produced when the compressor shuts down is not present with inverter models.

### Sine wave drive compressor control system



Uses the improved compressor control technology, which adopts a 180° conductance sine wave instead of the conventional 120° conductance waveform, resulting in a smoothing of motor rotation. This greatly reduces energy loss, contributing to higher efficiency, and thus higher energy savings.

\* For AE-X7JR, AE-X7HR, AE-X9HR, GU-X9FGR, AE-X2M18KR, AE-X3M18JR, AE-XM24HR models.

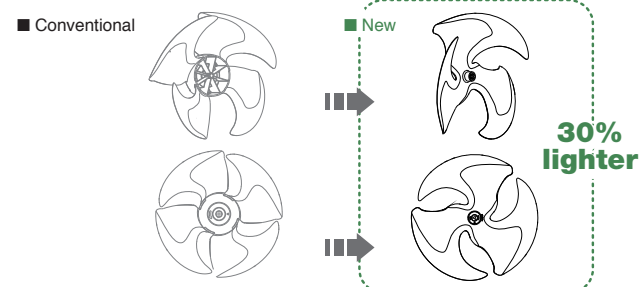


### New type of outdoor fan



This large-size outdoor unit employs a new, unique fan shape that uses the latest aerodynamic and hydrodynamic technology to improve energy efficiency. The new model using this fan achieves approximately **15% less** input values based on airflow for fan rotation than that of the conventional model. This new fan is also **30% lighter** than conventional fans. The amount of resin used as material has been reduced, making the fan more environmentally friendly and reducing the load on the motor.

\* For AE-A18KR, AE-A24KR, AE-X2M18KR models.



Sharp's single-type air conditioning models offer the power and functionality you need. Choose the best fit for your home from wall-mounted, floor-standing, floor/ceiling, and portable models.



## Single Split Type

Wall mounted  
Floor standing  
Floor/Ceiling  
Duct/Cassette

### Wall mounted

#### Super Deluxe Inverter

#### AY-XPC7/9/12JHR



AY-XPC7/9/12JHR

#### Cool/Dry/Heat

Model	Cooling Operation		Heating Operation	
	Capacity (kW) (Min. - Max.)	EER	Capacity (kW) (Min. - Max.)	COP
AY-XPC7JHR	2.10 (0.90-2.50)	4.04	2.40 (0.90-3.50)	4.85
AY-XPC9JHR	2.50 (0.90-3.00)	4.00	3.20 (0.90-5.00)	4.21
AY-XPC12JHR	3.50 (0.90-3.80)	3.21	4.00 (0.90-5.50)	3.92

- Twin Plasmacluster Ion
- Ultra-wide Airflow
- Long Coanda Airflow System
- Can be used singly or in a multi split system
- Self Cleaning Function with Plasmacluster Ions
- Anti-bacterial Air Purifying Filter
- 24-Hour ON/OFF Programmable Timer



#### Super Deluxe Inverter (Top Class EER/COP)

#### AY-XP9/12GHR



AY-XP9/12GHR

#### Cool/Dry/Heat

Model	Cooling Operation		Heating Operation	
	Capacity (kW) (Min. - Max.)	EER	Capacity (kW) (Min. - Max.)	COP
AY-XP9GHR	2.50 (0.90-3.00)	4.63	3.20 (0.90-5.00)	4.57
AY-XP12GHR	3.50 (0.90-4.00)	3.89	4.20 (0.90-6.00)	4.33

- Plasmacluster Ion
- Top Class EER/COP in Cooling and Heating Operation
- Deluxe Silver Panel
- Coanda Airflow System
- Self Cleaning Function with Plasmacluster Ions
- Washable Deodorizing Filter
- 24-Hour ON/OFF Programmable Timer



#### Deluxe Inverter

#### AY-XPC7/9/12JR



AY-XPC7/9/12JR

#### Cool/Dry/Heat

Model	Cooling Operation		Heating Operation	
	Capacity (kW) (Min. - Max.)	EER	Capacity (kW) (Min. - Max.)	COP
AY-XPC7JR	2.10 (0.90-2.50)	4.04	2.40 (0.90-3.50)	4.85
AY-XPC9JR	2.50 (0.90-3.00)	4.00	3.20 (0.90-5.00)	4.21
AY-XPC12JR	3.50 (0.90-3.80)	3.21	4.00 (0.90-5.50)	3.92

- Plasmacluster Ion
- Coanda Airflow System
- Can be used singly or in a multi split system
- Self Cleaning Function with Plasmacluster Ions
- Deodorizing Filter
- 24-Hour ON/OFF Programmable Timer





## Single Split Type

Wall mounted  
Floor standing  
Floor/Ceiling  
Duct/Cassette

## Wall mounted

## Deluxe Inverter

## AY-XP7/9/12HR



\* For the AY-XP7/9HR models only.

**AY-XP7/9/12HR**

## Cool/Dry/Heat

Model	Cooling Operation		Heating Operation	
	Capacity (kW) (Min. - Max.)	EER	Capacity (kW) (Min. - Max.)	COP
AY-XP7HR	2.10 (0.90-2.50)	4.04 <b>A</b>	2.40 (0.90-3.40)	4.53 <b>A</b>
AY-XP9HR	2.50 (0.90-3.00)	4.00 <b>A</b>	3.20 (0.90-5.00)	4.21 <b>A</b>
AY-XP12HR	3.50 (0.90-4.00)	3.50 <b>A</b>	4.00 (0.90-6.00)	3.92 <b>A</b>

- Plasmacluster Ion
- Powerful Jet
- Coanda Airflow System
- Self Cleaning Function with Plasmacluster Ions
- Anti-bacterial Air Purifying Filter
- 24-Hour ON/OFF Programmable Timer
- 4-way Auto Air Swing

AE-X7HR  
AE-X9HR  
AE-X12HR

## Deluxe Inverter

## AY-XP9/12LSR



**AY-XP9/12LSR**

## Cool/Dry/Heat

Model	Cooling Operation		Heating Operation	
	Capacity (kW) (Min. - Max.)	EER	Capacity (kW) (Min. - Max.)	COP
AY-XP9LSR	2.50 (0.90-3.00)	3.25 <b>A</b>	2.90 (0.90-3.70)	3.72 <b>A</b>
AY-XP12LSR	3.50 (0.90-3.80)	3.24 <b>A</b>	4.00 (0.90-4.70)	3.72 <b>A</b>

- Plasmacluster Ion
- Coanda Airflow System
- Self Cleaning Function with Plasmacluster Ions
- Air Purifying Filter
- 12-Hour ON/OFF Programmable Timer

AE-X9LSR  
AE-X12LSR

## Deluxe Inverter

## AY-XPC18LR/AY-XP24LR



\*AY-XPC18LR only

**AY-XPC18LR/AY-XP24LR**

## Cool/Dry/Heat

Model	Cooling Operation		Heating Operation	
	Capacity (kW) (Min. - Max.)	EER	Capacity (kW) (Min. - Max.)	COP
AY-XPC18LR	5.00	3.25 <b>A</b>	5.70	3.73 <b>A</b>
AY-XP24LR	3.50	3.24 <b>A</b>	7.50	3.72 <b>A</b>

- Plasmacluster Ion
- Coanda Airflow System
- Self Cleaning Function with Plasmacluster Ions
- 24-Hour ON/OFF Programmable Timer
- Winter Cool Function
- Spot Air
- Energy Saving (Eco Program)

AE-X18LR  
AE-X24LR

## Deluxe Inverter

## AY-XP18/24GR



**AY-XP18/24GR**

## Cool/Dry/Heat

Model	Cooling Operation		Heating Operation	
	Capacity (kW) (Min. - Max.)	EER	Capacity (kW) (Min. - Max.)	COP
AY-XP18GR	5.00 (0.90-5.70)	3.01	5.70 (0.90-7.70)	3.61 <b>A</b>
AY-XP24GR	7.00 (1.60-7.70)	2.81	7.50 (1.80-9.50)	3.22

- Plasmacluster Ion
- Coanda Airflow System
- Self Cleaning Function with Plasmacluster Ions
- Air Purifying Filter
- 24-Hour ON/OFF Programmable Timer

AE-X18GR  
AE-X24GR

## Single Split Type

Wall mounted  
Floor standing  
Floor/Ceiling  
Duct/Cassette

## Floor standing

## Inverter

## GS-XP9/12/18FGR



\* For the GS-XP9FGR model only.

**GS-XP9/12/18FGR**

## Cool/Dry/Heat

Model	Cooling Operation		Heating Operation	
	Capacity (kW) (Min. - Max.)	EER	Capacity (kW) (Min. - Max.)	COP
GS-XP9FGR	2.50 (0.90-3.00)	4.07 <b>A</b>	3.40 (0.90-5.00)	4.36 <b>A</b>
GS-XP12FGR	3.50 (0.90-4.00)	3.26 <b>A</b>	4.50 (0.90-6.00)	3.66 <b>A</b>
GS-XP18FGR	5.00 (0.90-5.70)	3.01	5.70 (0.90-7.70)	3.61 <b>A</b>

- Plasmacluster Ion
- Washable Deodorizing Filter
- 24-Hour ON/OFF Programmable Timer

GU-X9FGR  
GU-X12FGR  
AE-X18GR

## Floor/Ceiling

## Inverter

## GS-XP07/09/12FR, GS-XP18/24/27FR



**GS-XP07/09/12FR, GS-XP18/24/27FR**

## Cool/Dry/Heat

Model	Cooling Operation		Heating Operation	
	Capacity (kW) (Min. - Max.)	EER	Capacity (kW) (Min. - Max.)	COP
GS-XP07FR	2.10 (0.90-2.90)	3.75 <b>A</b>	2.40 (0.90-3.80)	4.71 <b>A</b>
GS-XP09FR	2.64 (0.90-3.40)	3.38 <b>A</b>	3.10 (0.90-4.50)	4.25 <b>A</b>
GS-XP12FR	3.50 (0.90-4.00)	3.21 <b>A</b>	4.00 (0.90-5.80)	3.88 <b>A</b>
GS-XP18FR	5.00 (1.70-6.10)	3.21 <b>A</b>	6.20 (1.70-7.50)	3.65 <b>A</b>
GS-XP24FR	7.00 (2.40-8.00)	3.21 <b>A</b>	8.00 (2.80-9.00)	3.62 <b>A</b>
GS-XP27FR	8.00 (2.40-8.50)	2.61	9.00 (2.80-10.00)	3.42

- Plasmacluster Ion
- 24-Hour ON/OFF Programmable Timer

AE-X7FR  
AE-X9FR  
AE-X12FR  
GU-XR18FR  
GU-XR24FR  
GU-XR27FR

## Deluxe ON/OFF

## AY-AP9/12KR, AY-AP18/24KR



**AY-AP9/12KR**  
**AY-AP18/24KR**

## Cool/Dry/Heat

Model	Cooling Operation		Heating Operation	
	Capacity (kW)	EER	Capacity (kW)	COP
AY-AP9KR	2.64	3.22 <b>A</b>	2.9	3.63 <b>A</b>
AY-AP12KR	3.50	3.21 <b>A</b>	3.8	3.62 <b>A</b>
AY-AP18KR	5.00	3.01	5.6	3.41
AY-AP24KR	6.50	3.01	7.7	3.41

- Plasmacluster Ion
- Coanda Airflow System
- Turbo Cooling & Heating Operation

AE-A9KR  
AE-A12KR  
AE-A18KR  
AE-A24KR



Bedroom



Living room



Office



Bar

Simple construction for easy, flexible interior coordination with new compact Duct and Cassette type air conditioner.

#### Indoor Unit

### Duct Type Unit

GB-X18JR  
GB-X24JR  
GB-X36JR



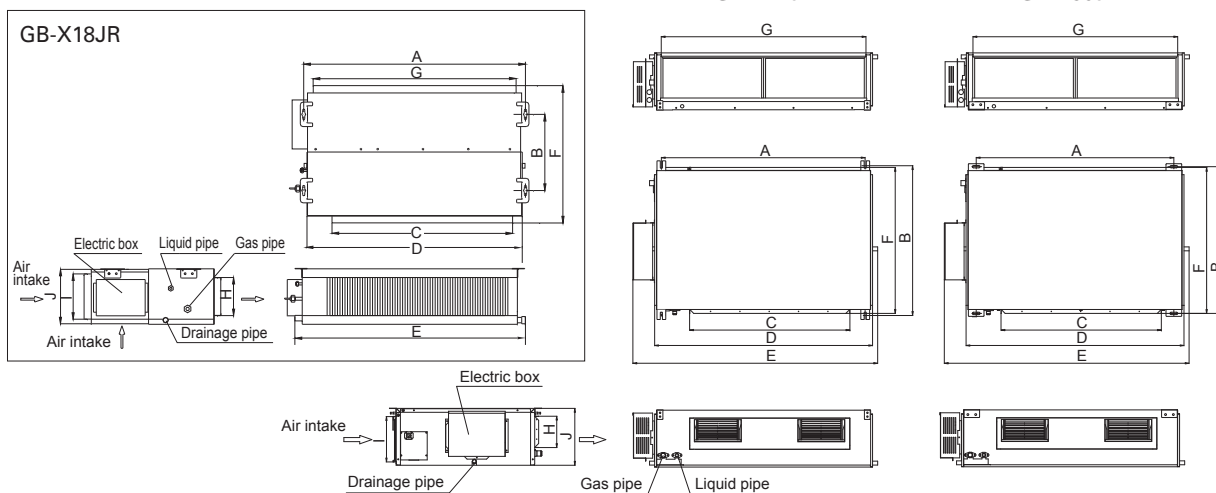
GB-X18JR

- Compact design for easy installation
- Low noise level
- Drain pump with 1,100 mm lift head (for GB-X24JR and GB-X36JR)
- Wired control
- Wireless remote control
- Energy save setting
- Sleep function

#### Controllers



#### Installation dimensions



(Unit: mm)

Item	A	B	C	D	E	F	G	H	I	J	Connecting pipe (liquid pipe)	Connecting pipe (gas pipe)	Drainage pipe (outer diameter x wall thickness)
Model													
GB-X18JR	932	430	738	894	1,012	736	738	125	207	266	1/4"	1/2"	φ30 x 1.5
GB-X24JR	1,101	515	820	1,159	1,270	504	1,002	160	235	268	3/8"	5/8"	φ20 x 1.5
GB-X36JR	1,011	748	820	1,115	1,251	744	980	160	231	290	1/2"	3/4"	φ20 x 1.5

#### Indoor Unit

### Cassette Type Unit

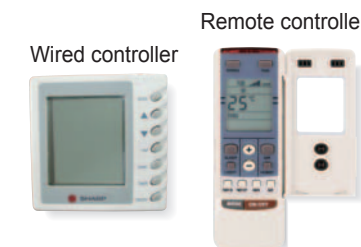
GX-X18JR  
GX-X24JR  
GX-X36JR



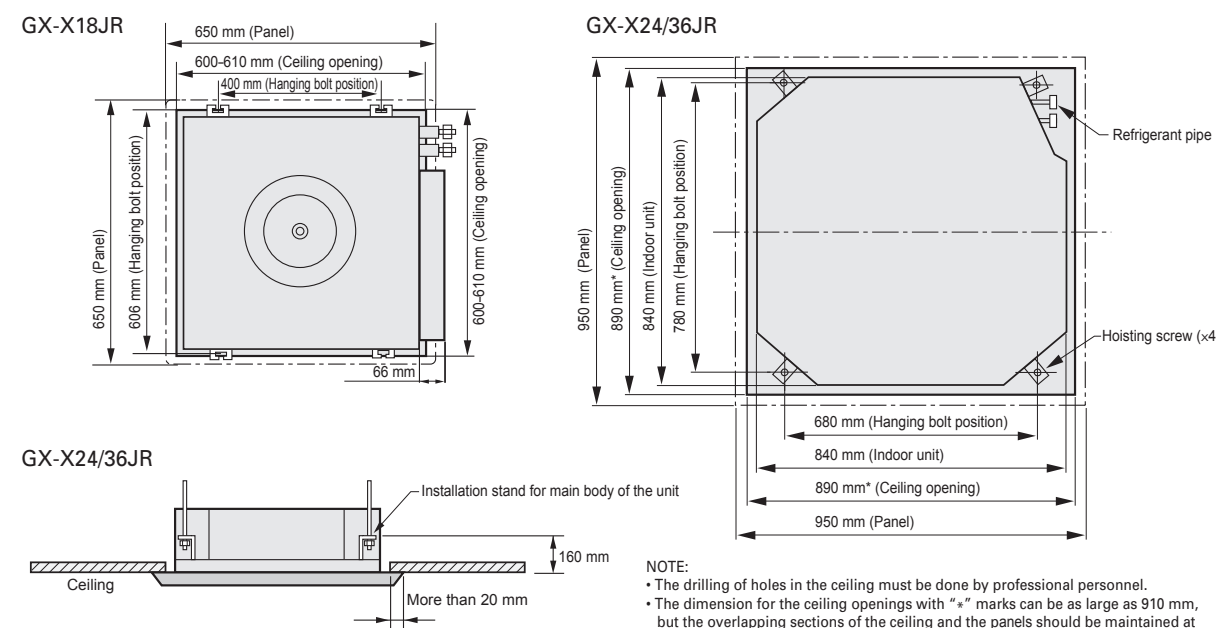
GX-X24/36JR

- Compact design for easy installation
- Low noise level
- Wired control
- Wireless remote control
- Energy save setting
- Sleep function
- Automatic swing louvers

#### Controllers



#### Installation dimensions



NOTE:

- The drilling of holes in the ceiling must be done by professional personnel.
- The dimension for the ceiling openings with "x" marks can be as large as 910 mm, but the overlapping sections of the ceiling and the panels should be maintained at no less than 20 mm.



Multi Split Type

Connectable 2 indoor units  
Connectable 3 indoor units  
Connectable 4 indoor units



A wide variety of choices for indoor units

Sharp's multi-split air conditioning systems allow you to combine up to four indoor units with a single outdoor unit. The indoor units can be wall mounted types, or floor standing types. This wide-ranging choice of indoor units offers you more flexible coordination for each room.




You can combine 10 types of indoor units.

These models can be used singly or in a multi split system.

Indoor unit	Capacity class	(Wall mounted type)			(Floor standing type)
7	2.1 kW	—	AY-XPC7JHR	AY-XPC7JR	—
9	2.6 kW	—	AY-XPC9JHR	AY-XPC9JR	GS-XPM9FGR
12	3.5 kW	—	AY-XPC12JHR	AY-XPC12JR	GS-XPM12FGR
18	5.0 kW	AY-XPM18HR / AY-XPC18LR	—	—	GS-XPM18FGR

2 indoor units with AE-X2M18KR

Inverter




HIGH EER

HIGH COP

R410A

Outdoor unit: System 2



AE-X2M18KR

Connectable indoor units (2 units)

AY-XPC7JHR  
AY-XPC9JHR  
AY-XPC12JHR

AY-XPC7JR  
AY-XPC9JR  
AY-XPC12JR

GS-XPM9FGR  
GS-XPM12FGR

\* Two indoor units must be connected.    \* See the capacity table on page 20 for permissible combinations.

AE-X2M18KR Cool/Dry/Heat

Example of indoor unit combinations

Indoor unit	Cooling Operation		Heating Operation	
	Capacity (kW) (Min.-Max.)	EER	Capacity (kW) (Min.-Max.)	COP
12 + 7	5.2 (1.8-6.0)	3.40**	5.8 (1.9-7.3)	4.00**
9 + 9	5.2 (1.8-6.0)		5.8 (1.9-7.3)	
9 + 7	4.7 (1.8-5.6)		5.4 (1.9-7.0)	

\*1 Representative connection (9 + 9)

For AY-XPC7/9/12JHR



For GS-XPM9/12FGR



For AY-XPC7/9/12JR






Lineup

Multi Split Type

Connectable 2 indoor units  
Connectable 3 indoor units  
Connectable 4 indoor units

3 indoor units with AE-X3M18JR

Inverter

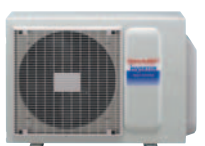


HIGH EER

HIGH COP

R410A

Outdoor unit: System 3



AE-X3M18JR

Indoor units (3 units)

AY-XPC7JHR  
AY-XPC9JHR  
AY-XPC12JHR

AY-XPC7JR  
AY-XPC9JR  
AY-XPC12JR

GS-XPM9FGR  
GS-XPM12FGR

You can choose any combination of 3 indoor units from those shown on the right. See the capacity table on back page for permissible combinations.

\* At least two indoor units must be connected.

AE-X3M18JR Cool/Dry/Heat

Example of indoor unit combinations

Indoor unit	Cooling Operation		Heating Operation	
	Capacity (kW) (Min.-Max.)	EER	Capacity (kW) (Min.-Max.)	COP
12 + 7 + 7	5.2 (2.2-7.2)	3.69**	6.8 (2.2-8.4)	4.10**
9 + 9 + 7	5.2 (2.2-7.2)		6.8 (2.2-8.4)	
9 + 7 + 7	5.2 (2.2-7.2)		6.8 (2.2-8.4)	
7 + 7 + 7	5.2 (2.2-7.0)		6.8 (2.2-8.4)	

\*1 Representative connection (7 + 7 + 7)

For AY-XPC7/9/12JHR



For GS-XPM9/12FGR






For AY-XPC7/9/12JR




3 indoor units with AE-XM24FR

Inverter



R410A

Outdoor unit: System 3



AE-XM24FR

Indoor units (3 units)

AY-XPC7JHR  
AY-XPC9JHR  
AY-XPC12JHR

AY-XPC7JR  
AY-XPC9JR  
AY-XPC12JR

GS-XPM9FGR  
GS-XPM12FGR

You can choose any combination of 3 indoor units from those shown on the right. See the capacity table on back page for permissible combinations.

\* For GS-XPM9FGR/12FGR models, only one unit can be connected to this system.    \* At least two indoor units must be connected.

AE-XM24FR Cool/Dry/Heat

Example of indoor unit combinations

Indoor unit	Cooling Operation		Heating Operation	
	Capacity (kW) (Min.-Max.)	EER	Capacity (kW) (Min.-Max.)	COP
12 + 7 + 7	7.00 (1.70-7.30)	2.88**	7.80 (1.70-8.20)	3.15**
9 + 9 + 7	7.00 (1.70-7.30)		7.80 (1.70-8.20)	
9 + 7 + 7	6.90 (1.70-7.30)		7.80 (1.70-8.20)	
7 + 7 + 7	6.10 (1.70-7.30)		7.10 (1.70-8.20)	

\*2 Representative connection (9 + 9 + 7)

For AY-XPC7/9/12JHR



For GS-XPM9/12FGR



For AY-XPC7/9/12JR






These models can be used singly or in a multi split system.

Indoor unit	Capacity class	(Wall mounted type)	(Floor standing type)		
7	2.1 kW	—	AY-XPC7JHR	AY-XPC7JR	—
9	2.6 kW	—	AY-XPC9JHR	AY-XPC9JR	GS-XPM9FGR
12	3.5 kW	—	AY-XPC12JHR	AY-XPC12JR	GS-XPM12FGR
18	5.0 kW	AY-XPM18HR/AY-XPC18LR	—	—	GS-XPM18FGR

4 indoor units with AE-XM24HRInverter

Outdoor unit: System 4




AE-XM24HR


You can choose any combination of 4 indoor units from those shown on the right. See the capacity table on back page for permissible combinations.

\* At least three indoor units must be connected.


Indoor units (4 units)



AY-XPC7JHR  
AY-XPC9JHR  
AY-XPC12JHR



AY-XPC7JR  
AY-XPC9JR  
AY-XPC12JR




GS-XPM9FGR  
GS-XPM12FGR

Indoor unit	Cooling Operation		Heating Operation	
	Capacity (kW) (Min.-Max.)	EER	Capacity (kW) (Min.-Max.)	COP
12 + 7 + 7 + 7	7.00 (3.00-8.20)	3.21**	8.00 (3.00-9.20)	4.00**
9 + 9 + 7 + 7	7.00 (3.00-8.20)		8.00 (3.00-9.20)	
9 + 7 + 7 + 7	7.00 (3.00-8.20)		8.00 (3.00-9.20)	
7 + 7 + 7 + 7	7.00 (3.00-8.20)		8.00 (3.00-9.20)	

\*1 Representative connection (7 + 7 + 7 + 7)

4 indoor units with AE-XM30GRInverter

Outdoor unit: System 4




AE-XM30GR


You can choose any combination of 4 indoor units from those shown on the right. See the capacity table on back page for permissible combinations.

\* When using GS-XPM18FGR or AY-XPM18HR models, only one such 5.0 kW class unit can be used within the system.  
\* At least three indoor units must be connected.


Indoor units (4 units)




AY-XPC7JHR  
AY-XPC9JHR  
AY-XPC12JHR




AY-XPC7JR  
AY-XPC9JR  
AY-XPC12JR



AY-XPM18HR



AY-XPC18LR



GS-XPM9FGR  
GS-XPM12FGR  
GS-XPM18FGR

Indoor unit	Cooling Operation		EER	Heating Operation	
	Capacity (kW) (Min.-Max.)			Capacity (kW) (Min.-Max.)	COP
18 + 7 + 7 + 7	8.40 (4.30-9.00)	2.81**		9.00 (4.40-10.60)	3.75**
12 + 7 + 7 + 7	8.40 (4.30-9.00)			9.00 (4.40-10.60)	
9 + 9 + 7 + 7	8.40 (4.30-9.00)			9.00 (4.40-10.60)	
9 + 7 + 7 + 7	8.40 (4.30-9.00)			9.00 (4.40-10.60)	
7 + 7 + 7 + 7	8.00 (4.30-9.00)			8.50 (4.40-9.80)	

\*2 Representative connection (9 + 7 + 7 + 7)

Wall mounted																				
Model	Indoor		AY-XPC7JHR	AY-XPC9JHR	AY-XPC12JHR	AY-XP9GHR	AY-XP12GHR	AY-XP67JR	AY-XP9CJR	AY-XP12JR	AY-XP7HR	AY-XP9HR	AY-XP12HR	AY-XP9LSR	AY-XP12LSR	AY-XPC18LR	AY-XP24LR	AY-XP18GR	AY-XP24GR	
	Outdoor		AE-X7JR	AE-X9JR	AE-X12JR	AE-X9GHR	AE-X12GHR	AE-X7JR	AE-X9JR	AE-X12JR	AE-X7HR	AE-X9HR	AE-X12HR	AE-X9LSR	AE-X12LSR	AE-X18LR	AE-X24LR	AE-X18GR	AE-X24GR	
Capacity *1	Cool (Min. - Max.)	kW	2.10 0.90-2.50	2.50 0.90-3.00	3.50 0.90-3.80	2.50 0.90-3.00	3.50 0.90-4.00	2.10 0.90-2.50	2.50 0.90-3.00	3.50 0.90-3.80	2.10 0.90-2.50	2.50 0.90-3.00	3.50 0.90-4.00	2.50 0.90-3.00	3.50 0.90-3.80	5.00 1.5-7.5	7.00 1.6-8.0	5.00 0.90-5.70	7.00 1.60-7.70	
	Heat (Min. - Max.)	kW	2.40 0.90-3.50	3.20 0.90-5.00	4.20 0.90-5.50	3.20 0.90-5.00	4.20 0.90-6.00	2.40 0.90-3.50	3.20 0.90-5.00	4.00 0.90-5.50	2.40 0.90-3.40	3.20 0.90-5.00	4.00 0.90-6.00	2.90 0.90-3.70	4.00 0.90-4.70	5.70 1.5-8.0	7.50 1.8-9.5	5.70 0.90-7.70	7.50 1.80-9.50	
Power supply		V-ph-Hz	220-240-1ø-50			220-240-1ø-50		220-240-1ø-50			220-240-1ø-50			220-240-1ø-50		220-240-1ø-50		220-240-1ø-50		
Running current *1	Cool	A	2.7	3.1	4.9	2.8	4.3	2.7	3.1	4.9	2.7	3.2	5.0	4.0	5.4	•	•	7.4	11.0	
	Heat	A	2.6	3.7	4.6	3.4	4.5	2.6	3.7	4.6	2.8	4.0	5.1	4.0	5.4	•	•	7.0	10.3	
Power input *1	Cool (Min. - Max.)	W	520 200-720	625 200-900	1,090 200-1,300	540 150-750	900 150-1,300	520 200-720	625 200-900	1,090 200-1,300	520 200-700	625 200-900	1,090 200-1,350	700 240-1,100	1,080 240-1,250	1,540 •	2,160 •	1,660 330-2,190	2,490 500-2,900	
	Heat (Min. - Max.)	W	495 180-890	760 180-1,450	1,020 180-1,620	700 130-1,300	970 130-1,700	495 180-890	760 180-1,450	1,020 180-1,620	530 200-920	760 200-1,450	1,020 220-1,750	780 220-1,200	1,075 220-1,470	1,530 •	2,015 •	1,580 330-2,400	2,330 500-3,170	
EER *1	Cool		4.04	4.00	3.21	4.63	3.89	4.04	4.00	3.21	4.04	4.00	3.50	3.25	3.24	3.25	3.24	3.01	2.81	
COP *1	Heat		4.85	4.21	3.92	4.57	4.33	4.85	4.21	3.92	4.53	4.21	3.92	3.72	3.72	3.72	3.72	3.61	3.22	
Energy efficiency class *1	Cool		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	C	
	Annual Energy Consumption	kWh	260	313	545	270	450	260	313	545	260	313	500	385	540	770	1,080	830	1,245	
	Heat		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	
	Sound pressure level (Cool) *2	dB(A)	36/26	37/26	40/27	42/26	43/27	36/26	37/26	40/27	35/24	37/24	38/26	37	40	43/33	47/35	43/33	47/36	
Sound power level (Cool)	Indoor (Hi)	dB(A)	51	52	56	56	57	51	52	56	51	52	54	51	54	•	•	57	62	
	Outdoor	dB(A)	58	58	61	59	62	58	58	61	59	59	60	60	62	•	•	65	69	
Airflow volume	Indoor (Hi, Cool)	m³/min.	8.0	8.4	9.7	10.3	10.7	8.9	9.1	10.5	8.6	9.1	10.9	9.1	11.2	•	•	15.4	18.3	
Dimensions	Indoor	W	798	798	798	790	790	790	790	790	860	860	860	860	860	1,040	1,040	1,040	1,040	
		mm	H	260	260	260	278	278	278	278	278	292	292	292	292	292	325	325	325	325
			D	290	290	290	198	198	198	198	198	198	198	198	205	205	222	222	229	229
	Outdoor	W	730	730	730	780	780	730	730	730	730	730	730	730	730	730	850	850	780	890
		mm	H	540	540	540	540	540	540	540	540	540	540	540	540	540	710	710	540	800
			D	250	250	250	265	265	250	250	250	250	250	250	250	250	250	330	330	265
Net weight	Indoor	kg	11	11	11	10	10	10	10	10	8.5	8.5	9	8.5	9.0	12	13	16	16	
Pipe diameter	Outdoor	kg	31	33	33	37	37	31	33	33	33	34	34	29	32	49	53	37	61	
	Liquid side	inch	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3/8	
	Gas side	inch	3/8	3/8	3/8	3/8	1/2	3/8	3/8	3/8	3/8	3/8	1/2	3/8	1/2	1/2	5/8	1/2	5/8	
Min-Max pipe length	m	1-15	1-15	1-15	1-15	1-15	1-15	1-15	1-15	1-15	1-15	1-15	1-15	1-15	1-15	1-20	1-20	1-20	1-30	
Maximum chargeless length	m	10	10	10	10	10	10	10	10	10	10	10	10	7.5	7.5	10	10	20	20	
Maximum height difference	m	7	7	7	7	7	7	7	7	7	7	7	7	7	7	10	10	10	10	
Refrigerant			R410A			R410A		R410A			R410A			R410A		R410A		R410A		
Operating Range (Outdoor)	Cool	°C	-10-46			-10-46		-10-46			-10-46			-21-43		-10-46		-10-46		21-46
	Heat	°C	-15-24			-15-24		-15-24			-15-24			-7-24		-15-24		-15-24		

		Floor standing								Floor/Ceiling							
Model	Indoor		AY-AP9KR	AY-AP12KR	AY-AP18KR	AY-AP24KR	GS-XP9FGR	GS-XP12FGR	GS-XP18FGR	GS-XP07FR	GS-XP09FR	GS-XP12FR	GS-XP18FR	GS-XP24FR	GS-XP27FR		
	Outdoor		AE-A9KR	AE-A12KR	AE-A18KR	AE-A24KR	GU-X9FGR	GU-X12FGR	AE-X18GR	AE-X7FR	AE-X9FR	AE-X12FR	GU-XR18FR	GU-XR24FR	GU-XR27FR		
Capacity *1	Cool (Min. - Max.)	kW	2.64	3.50	5.00	6.50	2.50 0.90-3.00	3.50 0.90-4.00	5.00 0.90-5.70	2.10 0.90-2.90	2.64 0.90-3.40	3.50 0.90-4.00	5.00 1.70-6.10	7.00 2.40-8.00	8.00 2.40-8.50		
	Heat (Min. - Max.)	kW	2.90	3.80	5.60	7.70	3.40 0.90-5.00	4.50 0.90-6.00	5.70 0.90-7.70	2.40 0.90-3.80	3.10 0.90-4.50	4.00 0.90-5.80	6.20 1.70-7.50	8.00 2.80-9.00	9.00 2.80-10.00		
Power supply		V-ph-Hz	220-240-1ø-50			220-240-1ø-50			220-240-1ø-50			220-240-1ø-50			220-240-1ø-50		
Running current *1	Cool	A	3.7	4.9	7.6	10.0	2.9	5.0	7.4	2.7	3.6	5.0	7.2	10.0	14.0		
	Heat	A	3.6	4.7	7.5	10.5	3.6	5.7	7.0	2.4	3.5	4.7	7.8	10.1	12.1		
Power input *1	Cool (Min. - Max.)	W	820	1,090	1,660	2,160	615 200-890	1,075 230-1,320	1,660 260-2,190	560 230-760	780 230-960	1,090 230-1,300	1,560 370-2,650	2,180 630-3,120	3,065 630-3,750		
	Heat (Min. - Max.)	W	800	1,050	1,640	2,260	780 200-1,400	1,230 230-1,730	1,580 260-2,400	510 250-860	730 250-1,120	1,030 250-1,560	1,700 370-2,200	2,210 730-2,800	2,630 730-3,400		
EER *1	Cool		3.22	3.21	3.01	3.01	4.07	3.26	3.01	3.75	3.38	3.21	3.21	3.21	2.61		
COP *1	Heat		3.63	3.62	3.41	3.41	4.36	3.66	3.61	4.71	4.25	3.88	3.65	3.62	3.42		
Energy efficiency class *1	Cool		A	A	B	B	A	A	B	A	A	A	A	A	D		
	Annual Energy Consumption	kWh	410	545	830	1,080	308	538	830	280	390	545	780	1,090	1,530		
	Heat		A	A	B	B	A	A	A	A	A	A	A	A	B		
Sound pressure level (Cool) *2	Indoor (Hi/Lo)	dB(A)	38/28	40/29	41/34	45/37	37/22	38/23	44/33	37/28	39/28	41/29	43/34	46/34	47/34		
	Outdoor	dB(A)	45	48	52	54	45	46	49	45	45	48	54	55	56		
Sound power level (Cool)	Indoor (Hi)	dB	54	55	57	61	53	53	60	51	52	54	57	60	61		
	Outdoor	dB	59	62	68	69	61	62	65	58	59	60	67	69	69		
Airflow volume	Indoor (Hi, Cool)	m³/min.	9.1	10.6	15.0	16.4	9.9	10.5	14.2	11.0	11.0	12.0	17.0	19.0	20.0		
Dimensions	Indoor	W	860	860	1,040	1,040	750	750	750	1,025	1,025	1,025	1,300	1,300	1,300		
		H	292	292	325	325	670	670	670	680	680	680	680	680	680		
	Outdoor	D	198	198	222	222	235	235	235	212	212	212	212	212	212		
		W	730	730	890	890	730	730	780	730	730	730	890	890	890		
		H	540	540	645	645	540	540	540	540	540	540	800	800	800		
		D	250	250	327	327	250	250	265	250	250	250	320	320	320		
Net weight	Indoor	kg	8.5	9	14	14	17	17	17	31	31	31	34	36	36		
	Outdoor	kg	27	29	43	53	33	33	37	33	33	37	57	65	65		
Pipe diameter	Liquid side	inch	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3/8	3/8		
	Gas side	inch	3/8	1/2	1/2	1/2	3/8	3/8	1/2	3/8	3/8	3/8	1/2	5/8	5/8		
Min-Max pipe length		m	1-10	1-15	1-15	1-15	1-20	1-20	1-30	1-15	1-15	1-15	1-30	1-30	1-30		
Maximum chargeless length		m	7.5	7.5	7.5	7.5	15	15	30	10	10	10	30	30	30		
Maximum height difference		m	5	7	10	10	7	7	10	7	7	7	20	20	20		
Refrigerant			R410A			R410A			R410A			R410A					
Operating Range (Outdoor)	Cool	°C	21-46		21-46		21-46		21-46		21-46		21-46				
	Heat	°C	-7-24		-7-24		-7-24		-7-24		-7-24		-7-24				

Multi Split Type

Outdoor units

System			2-indoor operation	3-indoor operation	3-indoor operation	4-indoor operation	4-indoor operation
Model	Outdoor		AE-X2M18KR	AE-X3M18JR	AE-XM24FR	AE-XM24HR	AE-XM30GR
	Indoor unit combination *4		9 + 9	7+ 7 + 7	9 + 9 + 7	7 + 7 + 7 + 7	9+ 7 + 7 + 7
Capacity *1	Cool (Min. - Max.)	kW	5.20 1.80-6.00	5.20 2.20-7.00	7.00 1.70-7.30	7.00 3.00-8.20	8.40 4.30-9.00
	Heat (Min. - Max.)	kW	5.80 1.90-7.30	6.80 2.20-8.40	7.80 1.70-8.20	8.00 3.00-9.20	9.00 4.40-10.60
Power supply	V-ph-Hz		230-1Ø-50	230-1Ø-50	230-1Ø-50	230-1Ø-50	230-1Ø-50
Running current *1	Cool	A	7 (1.6-9.4)	6.5 (2.2-11.3)	10.7 (3.1-12.2)	10.0 (2.7-13.6)	13.7 (4.9-16.0)
	Heat	A	6.7 (1.7-9.6)	7.6 (1.9-11.4)	10.9 (3.0-11.9)	9.2 (2.6-11.7)	11.0 (4.3-14.0)
Power input *1	Cool (Min. - Max.)	W	1,530 350-2,050	1,410 430-2,460	2,430 700-2,775	2,180 600-2,980	2,990 1,070-3,490
	Heat (Min. - Max.)	W	1,450 370-2,100	1,660 420-2,480	2,475 685-2,710	2,000 560-2,560	2,400 940-3,060
EER *1	Cool		3.40	3.69	2.88	3.21	2.81
CDP *1	Heat		4.00	4.10	3.15	4.00	3.75
Energy efficiency class *1	Cool		A	A	C	A	C
	Annual Energy Consumption	kWh	765	705	1,215	1,090	1,495
	Heat		A	A	D	A	A
Sound pressure level*2 (Cool) (Outdoor)	dB (A)		46	46	56	49	57
Sound power level (Cool) (Outdoor)	dB		62	62	71	65	68
Dimensions (Outdoor)	W	mm	890	890	890	890	890
	H	mm	645	645	645	800	800
	D	mm	290	290	290	320	320
Net weight (Outdoor)	kg		55	53	56	64	70
Pipe diameter	Liquid side	inch	1/4 × 2	1/4 × 3	1/4 × 3	1/4 × 4	1/4 × 4
	Gas side	inch	3/8 × 2	3/8 × 3	3/8 × 3	3/8 × 4	3/8 × 3, 3/8 or 1/2 × 1
Min-Max pipe length (per indoor unit)	m		1-25	1-25	1-20	1-20	1-20
Maximum length (total)	m		40	50	40	50	50
Maximum chargeless length (total)	m		25	40	40	40	50
Maximum height difference	m		10	10	10	10	10
Drain joint	mm		O.D. Ø 18	O.D. Ø 18	O.D. Ø 18	O.D. Ø 18	O.D. Ø 18
Refrigerant			R410A	R410A	R410A	R410A	R410A
Operating Range (Outdoor)	Cool	°C	-10-43	21-43	21-43	21-43	21-43
	Heat	°C	-15-24	-15-24	-15-24	-15-24	-15-24

Indoor units

Model	AY-XPC7/9/12JHR		AY-XPC7/9/12JR		AY-XPM18HR	AY-XPC18LR	GS-XPM9/12/18FGR
Sound pressure level *2 (Cool)	(Hi/Lo)	dB (A)	7JHR: 36/26, 9JHR: 37/26, 12JHR: 40/27	7JR: 36/26, 9JR: 37/26, 12JR: 40/27	43/33	•	9FGR:38/25, 12FGR:40/26, 18FGR:44/35
Sound power level (Cool)	(Hi)	dB	7JHR: 51, 9JHR: 52, 12JHR: 56	7JR: 51, 9JR: 52, 12JR: 56	57	•	9FGR:53, 12FGR:54, 18FGR:60
Airflow volume (Cool)	(Hi)	m³/min.	7JHR: 8.0, 9JHR: 8.4, 12JHR: 9.7	7JR: 8.9, 9JR: 9.1, 12JR: 10.5	15.4	•	9FGR: 9.3, 12FGR: 10.6 18FGR: 14.2
Dimensions	W	mm	798	790	1,040	1,040	750
	H	mm	260	278	325	325	670
	D	mm	290	198	229	222	235
Net weight		kg	11	10	16	13	17

*1 Rating Conditions, Standard: EN 14511; 230 V, 50 Hz (Except portable air conditioners)			*2 Sound pressure level is measured according to JIS C 9612.		
Inside Air Temperature:			*3 For portable air conditioners, operating range is based on indoor temperature.		
27°C D.B. 19°C W.B. (Cooling)			*4 7: AY-XPC7JHR, AY-XPC7JR		
20°C D.B. (Heating)			9: AY-XPC9JHR, AY-XPC9JR, GS-XPM9FGR		
Outside Air Temperature:					
35°C D.B. 24°C W.B. (Cooling)					
7°C D.B. 6°C W.B. (Heating)					
* Heating capacity is lowered with a decrease in outdoor temperature.					
* Maximum data are measured under the test conditions listed right according to EN60335-2-40					

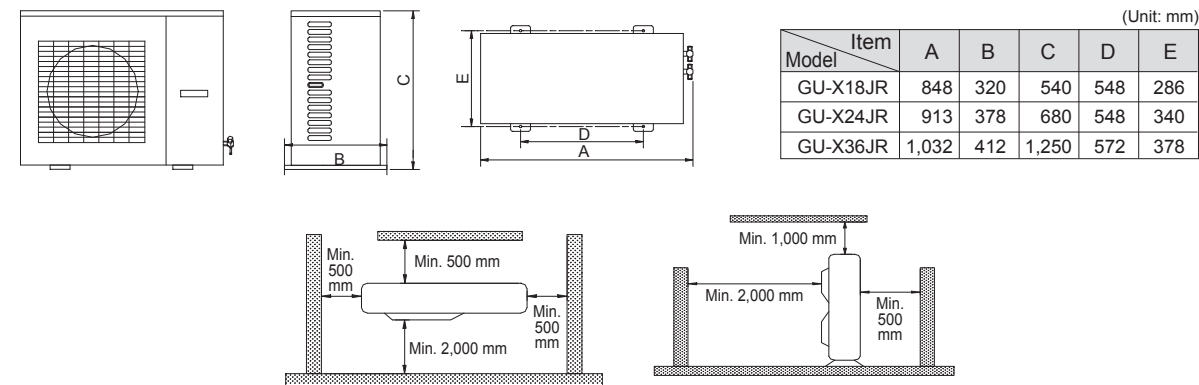
Duct / Cassette type

Outdoor Unit

- DC Inverter technology
- Common outdoor unit to be used for both duct and cassette application



Installation dimensions













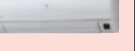



































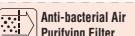

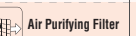



Specifications

Type	Duct		Cassette		Duct		Cassette		Duct		Cassette	
Model Name	Indoor Unit		Indoor Unit		Indoor Unit		Indoor Unit		Indoor Unit		Indoor Unit	
System	Panel for Cassette Unit		Panel for Cassette Unit		Panel for Cassette Unit		Panel for Cassette Unit		Panel for Cassette Unit		Panel for Cassette Unit	
	Outdoor Unit		Outdoor Unit		Outdoor Unit		Outdoor Unit		Outdoor Unit		Outdoor Unit	
Capacity *1	Cooling	KW	5.0 (1.54-5.0)	5.0 (1.16-5.0)	7.0 (1.55-7.0)	7.0 (1.73-7.0)	10.0 (3.48-10.0)	10.0 (4.48-10.0)	10.0 (3.48-10.0)	10.0 (4.48-10.0)	10.0 (3.48-10.0)	10.0 (4.48-10.0)
	Heating	KW	5.8 (1.24-5.8)	5.8 (1.02-5.8)	8.0 (1.24-8.0)	8.0 (1.24-8.0)	12.0 (3.62-12.0)	12.0 (3.50-12.0)	12.0 (3.62-12.0)	12.0 (3.50-12.0)	12.0 (3.62-12.0)	12.0 (3.50-12.0)
Power Supply	V-Ph-Hz		220-240 V - Single - 50 Hz		220-240 V - Single - 50 Hz		220-240 V - Single - 50 Hz		220-240 V - Single - 50 Hz		220-240 V - Single - 50 Hz	
Power Input *1	Cooling	KW	1.57 (0.45-1.57)	1.71 (0.50-1.71)	2.41 (0.74-2.41)	2.49 (0.75-2.49)	3.50 (1.68-3.5)	3.50 (1.68-3.5)	3.50 (1.68-3.5)	3.50 (1.68-3.5)	3.50 (1.68-3.5)	3.50 (1.68-3.5)
	Heating	KW	1.53 (0.46-1.53)	1.93 (0.51-1.93)	2.28 (0.70-2.28)	2.31 (0.70-2.31)	3.80 (1.60-3.8)	3.80 (1.60-3.8)	3.80 (1.60-3.8)	3.80 (1.60-3.8)	3.80 (1.60-3.8)	3.80 (1.60-3.8)
Rated Input (Max.)*1 *2	Cooling	W	2,200		3,200		4,600		4,600		4,600	
	Heating	W	2,600		3,500		5,700		5,700		5,700	
Running Current *1	Cooling	A	8.3	8.9	13.2	13.6	17.5	17.5	17.5	17.5	17.5	17.5
	Heating	A	7.9	10.0	12.2	11.2	19.1	19.1	19.1	19.1	19.1	19.1
EER/COP *1	Cooling		B - 3.18	C - 2.92	C - 2.90	C - 2.81	C - 2.86	C - 2.86	C - 2.86	C - 2.86	C - 2.86	C - 2.86
	Heating		A - 3.79	D - 3.01	B - 3.51	B - 3.46	D - 3.16	D - 3.16	D - 3.16	D - 3.16	D - 3.16	D - 3.16
Refrigerant Type	R-410A		R-410A		R-410A		R-410A		R-410A		R-410A	
	Refrigerant Volume		1.5		1.8		4.0		4.0		4.0	
Indoor Unit	Airflow Volume	m³/h	840	680	1,400	1,180	2,000	1,600	2,000	1,600	2,000	1,600
	Dehumidification	L/H	1.2	1.2	1.5	1.5	2.5	2.5	2.5	2.5	2.5	2.5
	External Static Pressure	Pa	60-40	-	80-60	-	150-100	-	150-100	-	150-100	-
	Sound Pressure Level (Hi/Lo)	dB(a)	42/38	47/42	44/40	47/42	48/44	53/50	48/44	53/50	48/44	53/50
	Dimensions	W x H x D	mm	1,012 x 266 x 736	600 x 230 x 600	1,270 x 268 x 504	840 x 260 x 840	1,251 x 290 x 744	840 x 320 x 840	1,251 x 290 x 744	840 x 320 x 840	840 x 320 x 840
Panel	Package Size	W x H x D	mm	1,120 x 308 x 795	848 x 310 x 678	1,345 x 278 x 594	960 x 310 x 960	1,335 x 300 x 834	960 x 394 x 960	1,335 x 300 x 834	960 x 394 x 960	960 x 394 x 960
	Net Weight	kg	36	20	37	30	57	38	57	38	57	38
	Dimensions	W x H x D	mm	-	650 x 50 x 650	-	950 x 60 x 950	-	950 x 60 x 950	-	950 x 60 x 950	-
	Package Size	W x H x D	mm	-	730 x 102 x 670	-	1,025 x 115 x 1,040	-	1,025 x 115 x 1,040	-	1,025 x 115 x 1,040	-
	Sound Pressure Level	dB(a)	56	59	59	62	62	62	62	62	62	62
Outdoor Unit	Dimensions	W x H x D	mm	848 x 540 x 320	913 x 680 x 378	994 x 750 x 428	1,032 x 1,250 x 412	1,032 x 1,250 x 412	1,032 x 1,250 x 412	1,032 x 1,250 x 412	1,032 x 1,250 x 412	1,032 x 1,250 x 412
	Package Size	W x H x D	mm	878 x 590 x 360	913 x 680 x 378	994 x 750 x 428	1,032 x 1,250 x 412	1,032 x 1,250 x 412	1,032 x 1,250 x 412	1,032 x 1,250 x 412	1,032 x 1,250 x 412	1,032 x 1,250 x 412
	Net Weight	kg	36	51	51	128	128	128	128	128	128	128
	Liquid Pipe	inch	1/4"	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
	Gas Pipe	inch	1/2"	5/8"	5/8"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Piping	Min./Max. Length	m	5/20	5/30	5/30	5/50	5/50	5/50	5/50	5/50	5/50	5/50
	Max. Chargeless Length	m	5	5	5	5	5	5	5	5	5	5
	Max. Height Difference	m	15	15	15	30	30	30	30	30	30	30
Outdoor Operating Temperature	Cooling	°C	+21 to +43	+21 to +43	+21 to +43	+21 to +43	+21 to +43	+21 to +43	+21 to +43	+21 to +43	+21 to +43	+21 to +43
	Heating	°C	-7 to +24	-7 to +24	-7 to +24	-7 to +24	-7 to +24	-7 to +24	-7 to +24	-7 to +24	-7 to +24	-7 to +24

\*1 Data collected at 230 V, 50 Hz. \*2 The maximum power input per IEC Standards.



	Capacity class	Single Type							Single Type			Multi Type			
		Inverter									ON/OFF	Inverter			
		Wall mounted							Floor standing	Floor/Ceiling	Wall mounted		Wall mounted		Floor standing
		Super Deluxe	Super Deluxe	Deluxe	Deluxe	Deluxe	Deluxe	Deluxe			Deluxe	Deluxe	Super Deluxe	Deluxe	Deluxe
															
Operation	2.1 kW	AY-XPC7JHR		AY-XPC7JR	AY-XP7HR					GS-XP07FR			AY-XPC7JHR	AY-XPC7JR	
Airflow	2.6 kW	AY-XPC9JHR	AY-XP9GHR	AY-XPC9JR	AY-XP9HR	AY-XP9LSR			GS-XP9FGR	GS-XP09FR	AY-AP9KR		AY-XPC9JHR	AY-XPC9JR	GS-XPM9FGR
Control Convenience	3.5 kW	AY-XPC12JHR	AY-XP12GHR	AY-XPC12JR	AY-XP12HR	AY-XP12LSR			GS-XP12FGR	GS-XP12FR	AY-AP12KR		AY-XPC12JHR	AY-XPC12JR	GS-XPM12FGR
Air Quality	5.0 kW						AY-XP18GR	AY-XPC18LR	GS-XP18FGR	GS-XP18FR		AY-AP18KR			AY-XPM18HR/ AY-XPC18LR
Additional Features	7.0 kW						AY-XP24GR	AY-XP24LR		GS-XP24FR		AY-AP24KR			GS-XPM18FGR
	8.0 kW									GS-XP27FR					
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 Powerful Jet				●											
 FULL POWER	●	●	●		●	●	●	●	●	●			●	●	●
 Turbo Turbo Cooling & Heating Operation											●	●			
 18°C Lower Room Temperature Setting (from 18°C)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
 Computerized Dry Mode Operation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
 Auto Operation Mode	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
 Auto & 3-Step Fan Speed Settings	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
 Auto Restart Function	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
 Auto Changeover				●		●		●	●						
 Winter Cool Function	●	●	●	●		● *AY-XP18GR only	●	●	●				● only with AE-X2M18KR	● only with AE-X2M18KR	● only with AE-X2M18KR
 Ultra-wide Airflow	●												●		
 Long Coanda Airflow System	●												●		
 Coanda Airflow System		●	●	●	●	●	●				●	●		●	
 4-way Auto Air Swing				●			●								● only with AY-XPC18LR
 Auto Swing Louver	●	●	●		●	●		●	●	●	●	●	●	● only with AY-XPM18HR	●
 Dual (Upper & Lower) Airflow System								●							●
 Microcomputer Control	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
 LCD Wireless Remote Control	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
 24h 12h Timer Programmable 24-Hour ON/OFF or 12-Hour ON/OFF	● 24 H	● 24 H	● 24 H	● 24 H	● 12 H	● 24 H	● 24 H	● 24 H	● 24 H	● 24 H	● 12 H	● 12 H	● 24 H	● 24 H	● 24 H
 1-Hour OFF Timer	●	●	●	●	●	●	● (1/2/3/5 hr)	●	●	●	●	●	●	● (1/2/3/5 hr)	●
 “Awakening” Function	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
 “Auto Sleep” Function	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
 Plasmacluster Ion	● Twin	●	●	●	●	●	●	●	●	●	●	●	● Twin	●	●
 Anti-Mold, Detachable & Washable Air Filter	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
 Air Purifying Filter	 Anti-bacterial Air Purifying Filter	 Washable Deodorizing Filter	 Deodorizing Filter	 Anti-bacterial Air Purifying Filter		 Air Purifying Filter	 Air Purifying Filter	 Washable Deodorizing Filter					 Anti-bacterial Air Purifying Filter	 Deodorizing Filter	 Air Purifying Filter
 Quiet Operation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
 Self Cleaning Function	●	●	●	●	●	●	●						●	●	●
 Dual Drain Setting	●	●	●	●	●		●	●	●	●	●	●	●	●	●

Operation



Inverter Controlled Operation

This function features quick cooling and heating operation and decreases fluctuation in temperature and reduces power consumption.



Powerful Jet

In this operation, the air conditioner works at the maximum power and optimum louver direction to rapidly cool or heat the room.



Full Power Mode

In this operation, the air conditioner works at the maximum power to rapidly cool or heat the room.



Turbo Operation

In this operation, the air conditioner fan works at “Extra-high” fan speed with a setting temperature of 15℃ in COOL & DRY and 32℃ in HEAT mode to rapidly cool or heat the room.



Lower Room Temperature Setting (from 18℃)

In cooling operation, room temperature can be set from 18℃.



Computerized Dry Mode Operation

The indoor fan motor and the compressor are controlled by the microcomputer to maintain room humidity without dropping the room temperature.



Auto Operation Mode

In the AUTO mode, the temperature setting and mode are automatically selected according to the room temperature.



Auto & 3-Step Fan Speed Settings

Auto fan speed and 3-step (HIGH/LOW/SOFT) manual fan speed are available.



Auto Restart Function

When power failure occurs and after power recovery, the unit will automatically restart in the same setting which was active before the power failure.



Auto Changeover

During AUTO MODE operation, the mode will automatically switch between HEAT and COOL mode to maintain a comfortable room temperature.



Winter Cool Function

Cooling operation is available during winter season down to -10℃ outside temperature.

Air Quality



Plasmacluster Ion

Plasmacluster ion generator inside the indoor unit releases positive and negative Plasmacluster ions into the room and reduces some airborne mold and viruses.



Air Purifying Filter



Deodorizing Filter



Washable Deodorizing Filter



Anti-bacterial Air Purifying Filter



Anti-Mold, Detachable & Washable Air Filter

Airflow



Ultra-wide Airflow

This function provides much wider airflows to deliver Plasmacluster ions and cold or warm air to every corner of the room.



Long Coanda Airflow System

This function provides much longer airflows to deliver Plasmacluster ions and cold or warm air farther from the unit.



Coanda Airflow System

This function provides warm air traveling down the wall to the floor during heating operation and cold air traveling up the ceiling during cooling operation in order to avoid direct air flow.



4-way Auto Air Swing

Automatic Vertical & Horizontal Air Flow is available in order to make the room uniformly cool or warm.



Auto Swing Louver

Automatic Vertical Air Flow is available in order to make the room uniformly cool or warm.



Dual (Upper & Lower) Airflow System

Dual (Upper & Lower) Airflow System is for maintaining a comfortable room; the air outlet is selected automatically according to room conditions, such as cold or hot.

Control Convenience



Microcomputer Control



LCD Wireless Remote Control



24-Hour ON/OFF Programmable Timer

The start or stop operation (hour and minute) can be set at same time.



12-Hour ON/OFF Timer



1-Hour OFF Timer

When the ONE-HOUR OFF TIMER is set, the unit will automatically turn off after one hour.



“Awakening” Function

When the ON Timer is set, the unit will turn on prior to the set time to allow the room to reach the desired temperature by the programmed time.



“Auto Sleep” Function

When the OFF Timer is set, the temperature setting is automatically adjusted to prevent the room from becoming excessively hot or cold while you sleep.

Additional Features



Quiet Operation



Self Cleaning Function

SELF CLEAN operation provides the effect of reducing the growth of mold fungus, and dries the inside of the air conditioner unit with Plasmacluster ions.



Dual Drain Setting

Rightward and Leftward Drain hose setting is available for easy installation.



Single/Multi Unit

Units with this feature can be used singly or in a multi split system.

Performance of Multi Inverter Type Capacity Table

\*When the Multi inverter type is used to operate two or more indoor units simultaneously, the capacity of each indoor unit may be lower than that when operating only one indoor unit. Be sure to refer to the capacity table to select the appropriate models.

Indoor units

7: AY-XPC7JHR, AY-XPC7JR  
9: AY-XPC9JHR, AY-XPC9JR, GS-XPM9FGR  
12: AY-XPC12JHR, AY-XPC12JR, GS-XPM12FGR  
18: AY-XPM18HR, GS-XPM18FGR, AY-XPC18LR

2-indoor units with AE-X2M18KR

Operating status	Indoor unit combination		Cooling capacity (kW)				Heating capacity (kW)				Power consumption (W) Rating (Min.–Max)	
	A	B	A	B	Rating (Min.–Max.)		A	B	Rating (Min.–Max.)		Cool	Heat
2-indoor unit operation	12	12	2.6	2.6	5.2 (1.8–6.0)		2.9	2.9	5.8 (1.9–7.3)		1,530 (350–2,050)	1,450 (370–2,100)
	12	9	3.0	2.2	5.2 (1.8–6.0)		3.3	2.5	5.8 (1.9–7.3)		1,530 (350–2,050)	1,450 (370–2,100)
	12	7	3.3	1.9	5.2 (1.8–6.0)		3.7	2.1	5.8 (1.9–7.3)		1,530 (350–2,050)	1,450 (370–2,100)
	9	9	2.6	2.6	5.2 (1.8–6.0)		2.9	2.9	5.8 (1.9–7.3)		1,530 (350–2,050)	1,450 (370–2,100)
	9	7	2.6	2.1	4.7 (1.8–5.6)		3.0	2.4	5.4 (1.9–7.0)		1,340 (350–1,830)	1,310 (370–2,030)
	7	7	2.1	2.1	4.2 (1.8–5.2)		2.5	2.5	5.0 (1.9–6.3)		1,120 (350–1,540)	1,170 (370–1,700)
1-indoor unit operation	12	*	3.4	*	3.4 (1.4–4.0)		4.0	*	4.0 (1.2–5.2)		950 (320–1,350)	1,240 (320–1,900)
	9	*	2.6	*	2.6 (1.4–3.3)		3.0	*	3.0 (1.2–4.2)		680 (320–950)	830 (330–1,440)
	7	*	2.0	*	2.0 (1.4–2.7)		2.4	*	2.4 (1.2–3.3)		510 (320–700)	680 (320–1,050)

\*When connected indoor unit is not in operation.

3-indoor units with AE-X3M18JR

Operating status	Indoor unit combination			Cooling capacity (kW)				Heating capacity (kW)				Power consumption (W) Rating (Min.–Max.)	
	A	B	C	A	B	C	Rating (Min.–Max.)	A	B	C	Rating (Min.–Max.)	Cool	Heat
3-indoor unit operation	12	9	7	2.2	1.7	1.3	5.2 (2.2–7.2)	2.9	2.2	1.7	6.8 (2.2–8.4)	1,410 (430–2,560)	1,660 (420–2,480)
	12	7	7	2.4	1.4	1.4	5.2 (2.2–7.2)	3.1	1.8	1.8	6.8 (2.2–8.4)	1,410 (430–2,560)	1,660 (420–2,480)
	9	9	9	1.7	1.7	1.7	5.2 (2.2–7.2)	2.3	2.3	2.3	6.8 (2.2–8.4)	1,410 (430–2,560)	1,660 (420–2,480)
	9	9	7	1.9	1.9	1.5	5.2 (2.2–7.2)	2.4	2.4	1.9	6.8 (2.2–8.4)	1,410 (430–2,560)	1,660 (420–2,480)
	9	7	7	2.0	1.6	1.6	5.2 (2.2–7.2)	2.7	2.1	2.1	6.8 (2.2–8.4)	1,410 (430–2,560)	1,660 (420–2,480)
	7	7	7	1.7	1.7	1.7	5.2 (2.2–7.0)	2.3	2.3	2.3	6.8 (2.2–8.4)	1,410 (430–2,460)	1,660 (420–2,480)
2-indoor unit operation	12	9	*	2.9	2.1	*	5.0 (1.9–6.5)	3.8	2.9	*	6.7 (1.6–8.0)	1,400 (350–2,400)	1,970 (380–2,670)
	12	7	*	3.2	1.8	*	5.0 (1.9–6.4)	4.2	2.4	*	6.6 (1.6–8.0)	1,400 (350–2,380)	1,970 (380–2,670)
	9	9	*	2.5	2.5	*	4.9 (1.9–6.2)	3.1	3.1	*	6.2 (1.6–8.0)	1,380 (350–2,200)	1,800 (380–2,670)
	9	7	*	2.5	2.0	*	4.5 (1.9–5.7)	3.2	2.5	*	5.6 (1.6–7.3)	1,190 (350–1,870)	1,550 (380–2,310)
1-indoor unit operation	7	7	*	2.0	2.0	*	4.0 (1.9–5.2)	2.5	2.5	*	5.0 (1.6–6.4)	1,000 (350–1,550)	1,320 (380–1,910)
	12	*	*	3.4	*	*	3.4 (1.4–4.0)	4.0	*	*	4.0 (1.1–5.2)	950 (320–1,350)	1,400 (330–2,150)
	9	*	*	2.6	*	*	2.6 (1.4–3.3)	3.0	*	*	3.0 (1.1–4.2)	680 (320–950)	970 (330–1,570)
	7	*	*	2.0	*	*	2.0 (1.4–2.7)	2.4	*	*	2.4 (1.1–3.3)	520 (320–710)	720 (330–1,130)

\*Connected but not operated

3-indoor units with AE-XM24FR

Operating status	Indoor unit combination			Cooling capacity (kW)				Heating capacity (kW)				Power consumption (W) Rating (Min.–Max.)	
	A	B	C	A	B	C	Rating (Min.–Max.)	A	B	C	Rating (Min.–Max.)	Cool	Heat
3-indoor unit operation	12	12	9	2.55	2.55	1.91	7.00 (1.70–7.30)	2.84	2.84	2.13	7.80 (1.70–8.20)	2,430 (700–2,775)	2,475 (685–2,710)
	12	12	7	2.71	2.71	1.58	7.00 (1.70–7.30)	3.02	3.02	1.76	7.80 (1.70–8.20)	2,430 (700–2,775)	2,475 (685–2,710)
	12	9	9	2.80	2.10	2.10	7.00 (1.70–7.30)	3.09	2.36	2.36	7.80 (1.70–8.20)	2,430 (700–2,775)	2,475 (685–2,710)
	12	9	7	2.98	2.28	1.75	7.00 (1.70–7.30)	3.30	2.50	2.10	7.80 (1.70–8.20)	2,430 (700–2,775)	2,475 (685–2,710)
	12	7	7	3.20	1.90	1.90	7.00 (1.70–7.30)	3.40	2.20	2.20	7.80 (1.70–8.20)	2,430 (700–2,775)	2,475 (685–2,710)
	9	9	9	2.33	2.33	2.33	7.00 (1.70–7.30)	2.60	2.60	2.60	7.80 (1.70–8.20)	2,430 (700–2,775)	2,475 (685–2,710)
	9	9	7	2.53	2.53	1.94	7.00 (1.70–7.30)	2.76	2.76	2.28	7.80 (1.70–8.20)	2,430 (700–2,775)	2,475 (685–2,710)
	9	7	7	2.70	2.10	2.10	6.90 (1.70–7.30)	3.00	2.40	2.40	7.80 (1.70–8.20)	2,400 (700–2,775)	2,475 (685–2,710)
	7	7	7	2.03	2.03	2.03	6.10 (1.70–7.30)	2.36	2.36	2.36	7.10 (1.70–8.20)	1,920 (700–2,775)	2,050 (685–2,710)
2-indoor unit operation	12	9	*	3.40	2.60	*	6.00 (1.40–7.10)	3.80	2.90	*	6.50 (1.40–8.10)	2,065 (590–2,635)	2,010 (580–2,890)
	12	7	*	3.40	2.00	*	5.40 (1.40–7.10)	3.70	2.30	*	6.00 (1.40–7.80)	1,670 (590–2,635)	1,760 (580–2,700)
	9	9	*	2.60	2.60	*	5.20 (1.40–5.60)	2.90	2.90	*	5.80 (1.40–7.20)	1,570 (590–1,800)	1,665 (580–2,580)
	9	7	*	2.60	2.00	*	4.60 (1.40–5.50)	2.90	2.40	*	5.30 (1.40–7.20)	1,340 (590–1,670)	1,440 (580–2,580)
1-indoor unit operation	7	7	*	2.00	2.00	*	4.00 (1.40–5.20)	2.40	2.40	*	4.80 (1.40–6.40)	1,180 (590–1,545)	1,150 (580–1,910)
	12	*	*	3.40	*	*	3.40 (1.10–5.20)	3.80	*	*	3.80 (1.10–5.20)	1,045 (500–1,480)	1,355 (515–2,305)
	9	*	*	2.60	*	*	2.60 (1.10–3.30)	2.90	*	*	2.90 (1.10–4.00)	770 (470–1,095)	1,070 (520–1,735)
	7	*	*	2.00	*	*	2.00 (1.10–2.70)	2.40	*	*	2.40 (1.10–3.40)	675 (440–895)	910 (540–1,385)

\*Connected but not operated