

Inverter Y Series



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This document contains the most current product information as of this printing.
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CONTENT





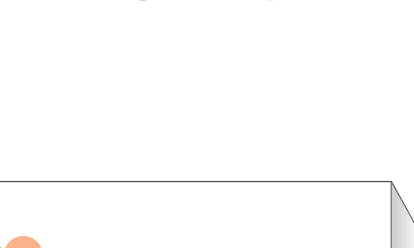

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● ● ● ● ● INVERTER PRODUCT LINE UP

inverter
Energy Saving Solutions



Indoor Product Line Up

						
Model Range	A5WMY10/15/20/25L/LR	A5WMY10/15/20/25JR	A5CKY20/25/E/ER A5CKY28/40/50ER	A5CKY10/15/20/25C/CR	A5CCY10/15/20/25C/CR A5CCY28/38/50/60CR	A5CMY15/20/25E/ER A5CMY28/40/50ER A5CMY62CR
Cooling Capacity (kW)	2.5 - 6.3	2.5 - 6.3	5.4 - 13.0	2.8 - 5.3	2.4-14.0	3.6-14.0
Heating Capacity (kW)	2.8 - 6.4	2.8 - 6.4	5.5 - 14.1	3.2 - 5.6	2.7-16.0	3.8 - 15.9

Outdoor Product Line Up

						
A5LCY10/15F/FR	A5LCY10/15D/DR	A5LCY18/20/25C/CR	A5LCY28CR	A5LCY40/50/60FR	A5MSY18BR	A5MSY20/25/30BR





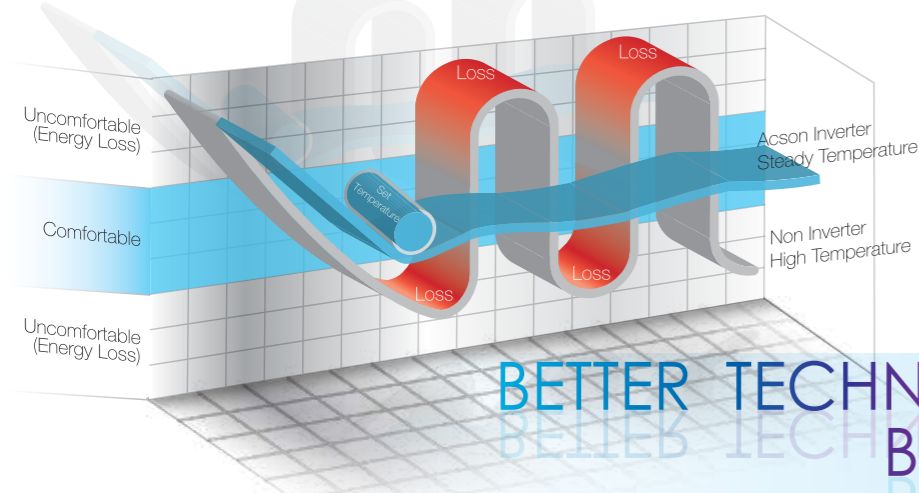
What is inverter technology?

Inverter air-conditioning technology is today's solution for superior comfort, higher efficiency and better energy-savings. Acson's inverter technology lowered energy consumption up to 50% and its powerful action allows you to reach the desired temperature quickly and maintains precise temperature to ensure consistent level of comfort.

Advantages of the inverter technology

- Superior Comfort
- Higher Efficiency
- Powerful Operation
- Better Energy Savings

While fixed speed (non-inverter) systems operates by compressor start-stop cycles, this consumes much more energy and room temperature variance is higher.



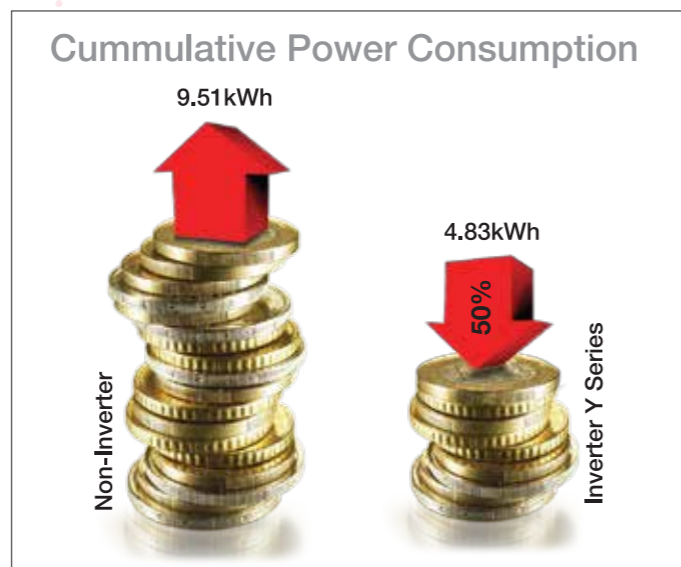
BETTER TECHNOLOGY,
BRIGHTER FUTURE

Up To 50% Energy Saving

By using intelligent controls, compressor running speed is matched with air-conditioning load. This achieves significant savings in energy consumption.

* Comparison between 1.5hp Inverter and Non-Inverter when operating 8 hours a day.
* Subject to individual operating conditions.

- Test Conditions:**
1. Room size: 16.5m²(area)
 2. Set Temperature: 25 degC
 3. Outside Temperature: 33 degC DB
 4. Fan speed: High
 5. Air flow: Maximum air flow

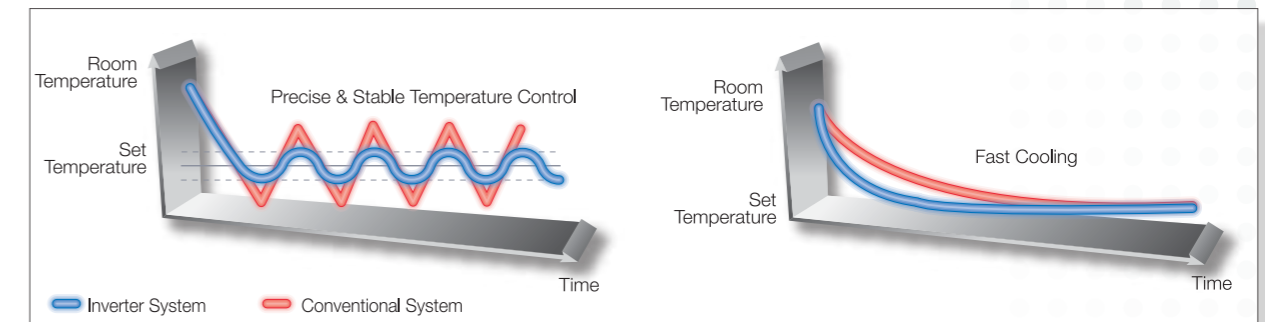


Flexible Performance

Rapid response time.

After quickly reaching Set Temperature, the inverter system constantly adjusts and fine-tunes the cooling/ heating capacity to prevent undesired temperature swings.

Room comfort level is constantly maintained even when the number of people in the room increases or decreases.



Flexible Installation

The extended piping length promote flexible installation.

Model	Pre-Charge Length (m)	Maximum Length (m)	Maximum Height (m)
A5LCY10F/FR	7.5	20.0	10.0
A5LCY15F/FR	7.5	20.0	10.0
A5LCY10D/DR	7.5	15.0	10.0
A5LCY15D/DR	7.5	15.0	10.0
A5LCY20C/CR	7.5	30.0	10.0
A5LCY25C/CR	7.5	30.0	10.0
A5LCY28CR	7.5	50.0	30.0
A5LCY40FR	30.0	75.0	30.0
A5LCY50FR	30.0	75.0	30.0
A5LCY60FR	30.0	75.0	30.0

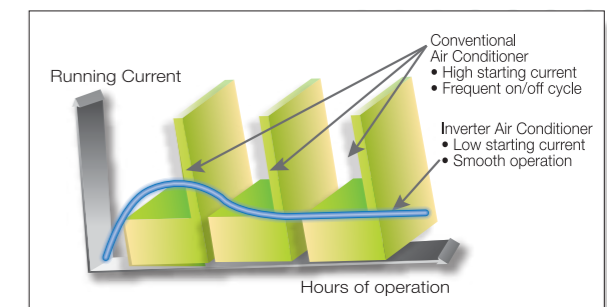
Note:

Additional refrigerant is required if the piping is longer than the pre-charge length. For details, kindly refer to the installation manual.

Low Starting Current

Soft-start feature.

- High current draw during startup is avoided due to the smooth ramp-up profile of inverter compressor.



Wide Range Of Indoor Models

Acson offers wide selection of indoor models suitable for any type of interior types demand, from the popular Wall Mounted to the more refined Ceiling Cassette models.

Acson's range of inverter products also fulfills cooling and heating requirements from 2.5 kW up to 15.9 kW. This ensures the benefits of inverter technology can be applied to most requirements.

Inverter Wall Mounted series



A5WMY10/15/20/25JR
Cooling Capacity (kW) : 2.5 - 6.3
Heating Capacity (kW) : 2.8 - 6.4



A5WMY10/15/20/25LR
Cooling Capacity (kW) : 2.5 - 6.3
Heating Capacity (kW) : 2.8 - 6.4

Stylish Flat-panel

Ideal blend of style and function.

- The front panel is designed for contemporary style without compromising on function.
- Air discharge area is designed to ensure smooth air flow profile for better sound quality and optimized air flow volume.

Bio PRO Better Indoor Air Quality (IAQ) Using Bio-Engineering

Bio-Pro is an IAQ solution which combines superior cleansing and purifying of Bio Antibody filter with more effective deodorizing features of Titanium Apatite filter.

Working in tandem, both technologically-advanced air filters offer higher level of IAQ and room comfort.

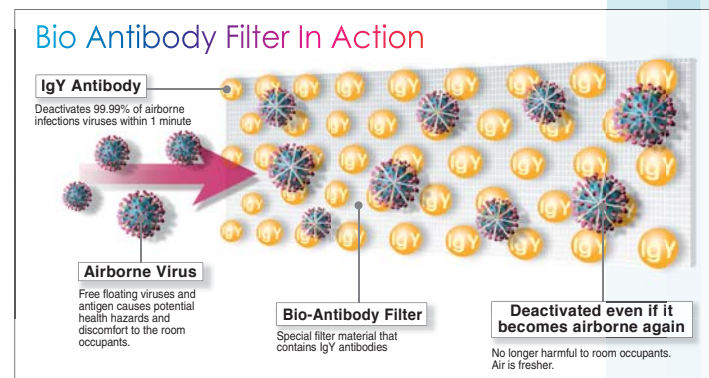
*Bio-Pro is offered as optional accessories.

Protection 1

Bio Antibody Filter

Bio-engineering is the fusion of life science with engineering principles that creates exciting new solutions to considerably enhance the needs of modern lifestyle.

Using advanced bio-engineering techniques, the Bio Antibody filter is able to eliminate up to 99.99%* of various airborne infectious viruses to provide a cleaner and more purified living environment. It last for one year after opening its accessory bag.



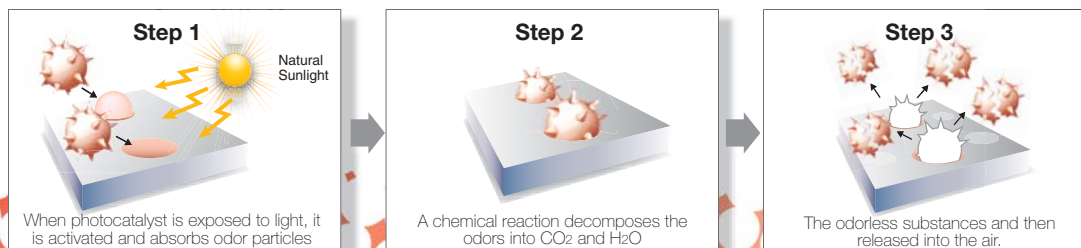
Protection 2

Titanium Apatite Filter

Micron-scale fibers trap dust while titanium apatite adsorbs organic contaminants such as bacteria and viruses. In addition, the titanium oxide is activated by natural light, allowing it to break down and eliminate odours. The filter effectively deactivates bacteria and viruses. It lasts for three years without replacement if washed about once every six months.

Titanium Oxide

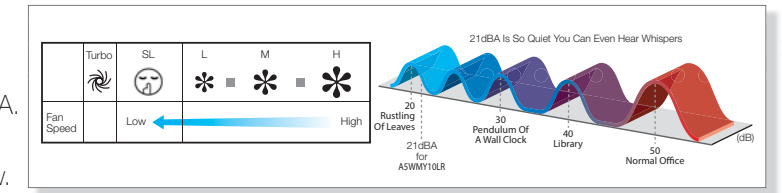
- Photo catalytic deodorizing filter
- Mechanism of photo catalytic.
 - Titanium Oxide is activated by exposure to light.
 - Becomes highly oxidative.
 - Dissolves absorbed substances into harmless water (H₂O) and carbon dioxide (CO₂).
- Absorption of dangerous airborne particles like dust, pollen and cigarette smoke.
- Dissolves odor, bacteria and virus.



Lower Sound Level

More quiet room environment.

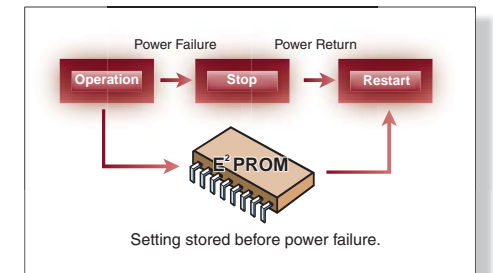
- With up to five selectable fan speeds, users are given more choices. By selecting Quiet mode, the sound pressure level is reduced down to an unobtrusive 21dBa.
- To quickly cool down the room, Turbo Mode can be selected for maximum cooling power and highest airflow.



Auto Random Restart with Last-State-Memory

In the event of a sudden power failure during operation, unit can be automatically restarted in 64 different recovery timing patterns and the unit will operate base on the previous setting (Operating Mode, Temperature Setting and Fan Speed).

This ensures that air conditioners in the same building resume randomly instead of all at the same time, preventing power surges after a blackout.



Specifications

Single-Split Y-Inverter Wall-Mounted Series

HEATPUMP MODEL	INDOOR MODEL	A5WMY10JR/ A5WMY10LR	A5WMY15JR/ A5WMY15LR	A5WMY20JR/ A5WMY20LR	A5WMY25JR/ A5WMY25LR	
		OUTDOOR MODEL A5LCY10FR	A5LCY15FR	A5LCY18CR	A5LCY25CR	
RATED CAPACITY (MIN - MAX)	COOLING	Btu/h 8700 (4400-10200) W 2560 (1300-3000)	11600 (4400-13000) 3410 (1300-3800)	19100 (5560-21150) 5600 (1630-6200)	21500 (5970-22180) 6300 (1750-6500)	
	HEATING	Btu/h 9700 (4400-13600) W 2840 (1300-4000)	12200 (4400-16200) 3580 (1300-4750)	19200 (3990-22520) 5620 (1170-6600)	21800 (4090-27300) 6400 (1200-8000)	
ENERGY EFFICIENCY	EER	W/W 3.69	3.22	3.39	3.35	
	COP	W/W 4.06	3.77	3.63	3.81	
REFRIGERANT	Type	R410A				
POWER SUPPLY	V/Ph/Hz	220-240/1/50				
COOLING ONLY MODEL	INDOOR MODEL	A5WMY10L	A5WMY15L	A5WMY20L	A5WMY25L	
	OUTDOOR MODEL	A5LCY10F	A5LCY15F	A5LCY18C	A5LCY25C	
RATED CAPACITY (MIN - MAX)	COOLING	Btu/h 8700 (4400-10200) W 2560 (1300-3000)	11600 (4400-13000) 3410 (1300-3800)	19100 (5560-21150) 5600 (1630-6200)	21500 (5970-22180) 6300 (1750-6500)	
	HEATING	Btu/h 9700 (4400-13600) W 2840 (1300-4000)	12200 (4400-16200) 3580 (1300-4750)	19200 (3990-22520) 5620 (1170-6600)	21800 (4090-27300) 6400 (1200-8000)	
ENERGY EFFICIENCY	EER	W/W 3.69	3.22	3.39	3.35	
	CFM	345	358	529	654	
INDOOR UNIT	AIR FLOW	345	358	529	654	
	SOUND PRESSURE LEVEL (MIN/MAX)	dBA 21/41	22/42	32/44	33/46	
	UNIT DIMENSION	HEIGHT	mm 288	288	310	310
		WIDTH	mm 800	800	1065	1065
DEPTH		mm 204	204	224	224	
UNIT WEIGHT	kg 9	9	14	14		
OUTDOOR UNIT	SOUND PRESSURE LEVEL	dBA 46	48	51	51	
	UNIT DIMENSION	HEIGHT	mm 550	550	651	753
		WIDTH	mm 658	658	855	855
		DEPTH	mm 289	289	328	328
UNIT WEIGHT	kg 26	28	49	49		
PIPE LENGTH	PRE-CHARGED	m 7.5	7.5	7.5	7.5	
	MAXIMUM	m 20	20	30	30	
PIPE CONNECTION SIZE	LIQUID	mm 6.35	6.35	6.35	6.35	
	GAS	mm 9.52	9.52	12.70	15.88	
OPERATING RANGE (MIN-MAX)	COOLING	°C DB 10 - 46	10 - 46	-10 - 46	-10 - 46	
	HEATING	°C WB -15 - 18	-15 - 18	-15 - 18	-15 - 18	

1) ALL SPECIFICATIONS ARE SUBJECT TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
 2) ALL UNITS ARE TESTED AND COMPLY TO ISO 5151 (NON DUCTED PRODUCT) & ISO 13253 (DUCTED PRODUCT)
 3) COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW:
 a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
 b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
 4) SOUND PRESSURE LEVELS ARE MEASURED IN ANECHOIC CHAMBER ACCORDING TO JIS C 9612 STANDARD.

INVERTER... ACSON INGENUITY INSIDE



Inverter Ceiling Cassette E series

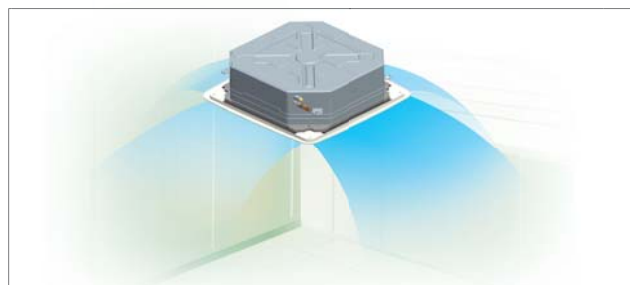
NEW



A5CKY 20/25E/ER
A5CKY 28/40/50ER
Cooling Capacity (kW) : 5.4 - 13.1
Heating Capacity (kW) : 5.5 - 14.2

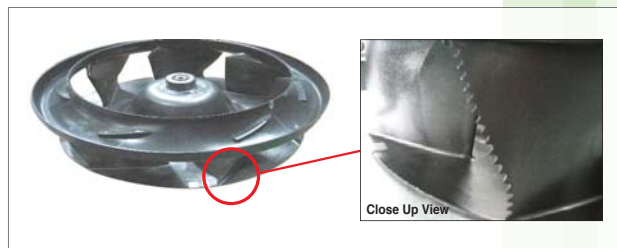
Optimal Comfort

Ceiling Cassette E Series is equipped with 3 air swing pattern. Either one of these swing pattern will suit your air distribution needs. Incorporate together with 4 way air discharge further enhance the air distribution and promote further comfort.



Quiet Operation

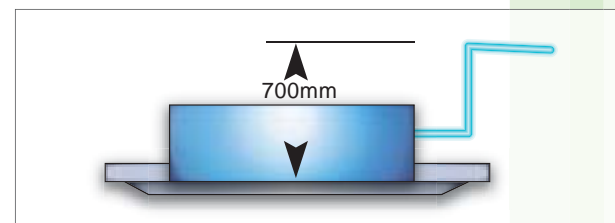
Ceiling Cassette E Series is equipped with 3 air swing pattern. Either one of these swing pattern will suit your air distribution needs. Incorporate together with 4 way air discharge further enhance the air distribution and promote further comfort.



	A5CKY20E/ER	A5CKY25E/ER	A5CKY28ER	A5CKY40ER	A5CKY50ER
Maximum Level (dBA)	34	37	41	44	47
Minimum Level (dBA)	27	30	32	35	39

Built-In High Head Drain Pump

The unit comes with a built-in high head drain pump 700mm head. A safety float is incorporated in the drain pump to monitor its water level.



Simple Fitting

The Ceiling Cassette E series is designed with the concept of easy installation in mind. The unit is designed with 2 uniform heights base on the most common application. The stylish decorative panel is the same for the whole range. On top of that, the intake grill allow 90° rotation. This allow the direction of the intake grill lines can be unified when multiple units are install within the same location.



Dimension (mm)		
Model	A	B
A5CKY20/25E/ER	265	300
A5CKY28ER	265	300
A5CKY40/50ER	300	335



Self Diagnosis

This intelligent feature helps to detect faults or malfunctioning in the system and give user a warning by blinking of the LED lights.

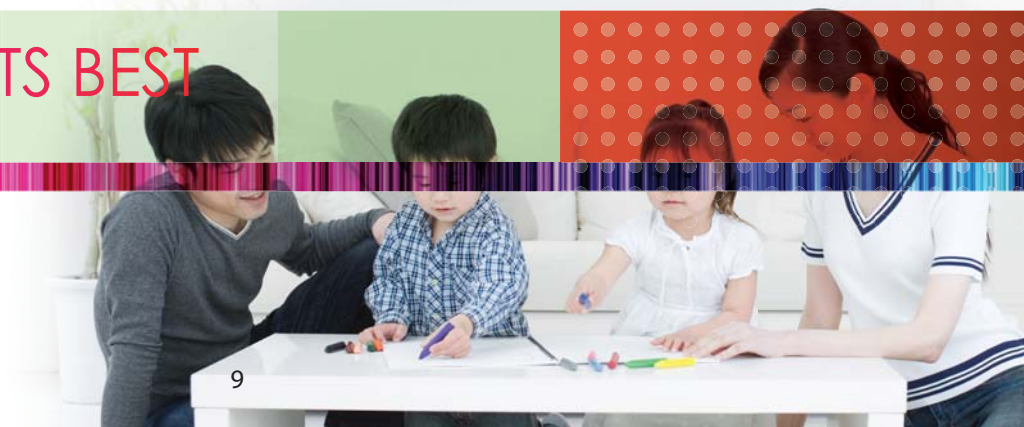
Specifications

Single-Split Y-Inverter Ceiling Cassette E-Series

HEATPUMP MODEL		INDOOR MODEL	A5CKY20ER	A5CKY25ER	A5CKY28ER	A5CKY40ER	A5CKY50ER
		OUTDOOR MODEL	A5LCY20CR	A5LCY25CR	A5LCY28CR	A5LCY40FR	A5LCY50FR
RATED CAPACITY (MIN - MAX) - 1Φ <3Φ>	COOLING	Btu/h	18458 (5220-20608)	21564 (2081-21564)	24226 (6483-26955)	35896 (18767-46064) <35827 (23544-51182)>	44358 (19108-47429) <42652 (26956-50158)>
		W	5410 (1530-6040)	6320 (1610-6320)	7100 (1900-7900)	10520 (5500-13500) <10500 (6900-15000)>	13000 (5600-13900) <12500 (7900-14700)>
	HEATING	Btu/h	18868 (5323-20574)	22212 (5357-24873)	28321 (4777-34121)	40604 (18426-54594) <38216 (18084-57323)>	48111 (19449-59712) <47770 (18426-58006)>
		W	5530 (1560-6030)	6510 (1575-7290)	8300 (1400-10000)	11900 (5400-16000) <11200 (5300-16800)>	14100 (5700-17500) <14000 (5400-17000)>
ENERGY EFFICIENCY - 1Φ <3Φ>	EER	W/W	3.41	3.25	3.21	3.84 <3.42>	3.34 <3.22>
	COP	W/W	3.70	3.99	3.85	3.93 <3.61>	3.88 <3.63>
REFRIGERANT	Type	R410A					
POWER SUPPLY - 1Φ <3Φ>	V/Ph/Hz	220-240/1/50					
		220-240/1/50 <380-415/3/50>					
COOLING ONLY MODEL		INDOOR MODEL	A5CKY20E	A5CKY25E			
		OUTDOOR MODEL	A5LCY20C	A5LCY25C			
RATED COOLING CAPACITY (MIN - MAX)		Btu/h	18458 (5220-20608)	21564 (2081-21564)			
		W	5410 (1530-6040)	6320 (1610-6320)			
ENERGY EFFICIENCY	EER	W/W	3.41	3.25			
INDOOR UNIT	AIR FLOW (H/M/L/SL)	CFM	600/530/430/400	680/600/530/430	860/725/620/530	1030/860/740/620	1200/1030/930/780
	SOUND PRESSURE LEVEL (H/M/L/SL)	dBA	34/31/28/27	37/34/31/30	41/38/35/32	44/41/38/35	47/44/43/39
UNIT DIMENSION	HEIGHT [WITH PANEL]	mm	265 [340]	265 [340]	265 [340]	300 [375]	300 [375]
	WIDTH [WITH PANEL]	mm	820 [990]	820 [990]	820 [990]	820 [990]	820 [990]
	DEPTH [WITH PANEL]	mm	820 [990]	820 [990]	820 [990]	820 [990]	820 [990]
	UNIT WEIGHT [WITH PANEL]	kg	29 [35]	29 [35]	29 [35]	39 [45]	41 [47]
OUTDOOR UNIT	SOUND PRESSURE LEVEL	dBA	51	51	50	50	51
	HEIGHT	mm	753	753	753	1374	1374
	WIDTH	mm	855	855	940	900	900
	DEPTH	mm	328	328	392	320	320
	UNIT WEIGHT	kg	49	49	51	100	100
PIPE LENGTH	PRE-CHARGED	m	7.5	7.5	7.5	30	30
	MAXIMUM	m	30	30	50	75	75
PIPE CONNECTION SIZE	LIQUID	mm	6.35	6.35	9.52	9.52	9.52
	GAS	mm	12.70	15.88	15.88	15.88	15.88
OPERATING RANGE (MIN-MAX)	COOLING	°C DB	-10 ~ -46	-10 ~ -46	-10 ~ -46	-10 ~ -46	-10 ~ -46
	HEATING	°C WB	-15 ~ -18	-15 ~ -18	-15 ~ -18	-15 ~ -18	-15 ~ -18

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- 2) ALL UNITS ARE TESTED AND COMPLY TO ISO 5151 (NON DUCTED PRODUCT) & ISO 13253 (DUCTED PRODUCT)
- 3) COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
- 4) SOUND PRESSURE LEVELS ARE MEASURED IN ANECHOIC CHAMBER ACCORDING TO JIS C 9612 STANDARD.
- NON DUCTED PRODUCT: POSITION OF MICROPHONE IS 1.0M IN FRONT AND 0.8M UNDERNEATH THE UNIT.
- DUCTED PRODUCT: POSITION OF MICROPHONE IS 1.4 M UNDERNEATH THE UNIT AND WITH 2M RETURN & DISCHARGE DUCT LENGTH.

EXPERIENCE INVERTER...INNOVATION AT ITS BEST



Inverter Ceiling Cassette C series

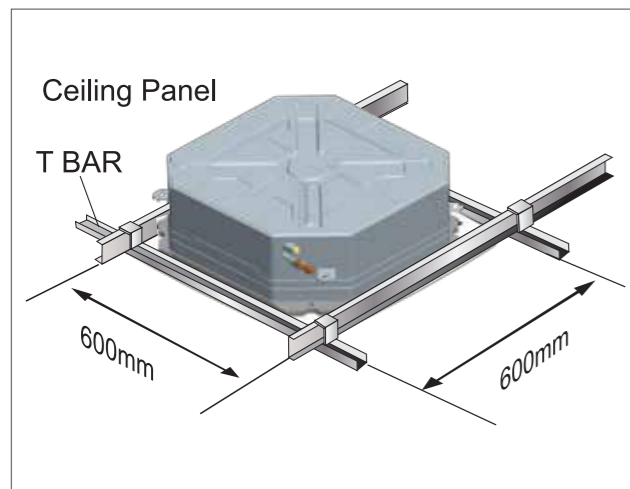
NEW



A5CKY 10/15/20C/CR
 Cooling Capacity (kW) : 2.8 - 5.3
 Heating Capacity (kW) : 3.2 - 5.6

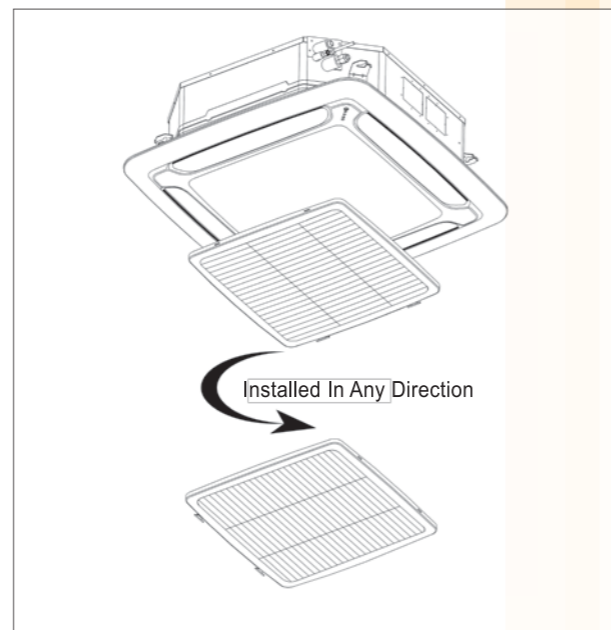
Compact Design

The Ceiling Cassette C series is designed to be compact. Its body dimension is only 570mm X 570mm which can easily fit into a 600mm ceiling grids. This make installation a lot easier.



Uniform Installation

The 640mm X 640mm stylish panel is well designed to blend into any interior design. It 90° rotatable intake grill promotes uniform installation when multiple units are install within the same location.



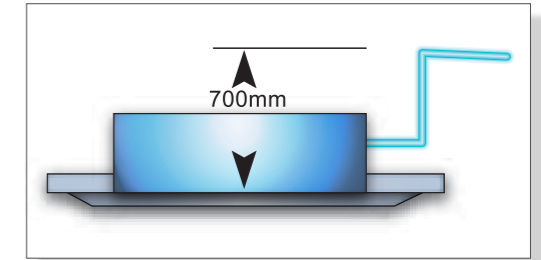
4-Way Air Discharge

It comes with 4 way air discharge and air swing function to ensure better air distribution and circulation in the room.



Built-In High Head Drain Pump

The unit comes with a built-in high head drain pump 700mm head. A safety float is incorporated in the drain pump to monitor its water level.



Self Diagnosis

This intelligent feature helps to detect faults or malfunctioning in the system and give user a warning by blinking of the LED lights.

Specifications

Single-Split Y-Inverter Ceiling Cassette C-Series

HEATPUMP MODEL		INDOOR MODEL	A5CKY10CR	A5CKY15CR	A5CKY20CR	
		OUTDOOR MODEL	A5LCY10DR	A5LCY15DR	A5LCY20CR	
RATED CAPACITY (MIN ~ MAX)	COOLING	Btu/h	9792 (4026~11942)	12385 (5254~13306)	18118 (6346~20643)	
		W	2870 (1180~3500)	3630 (1540~3900)	5310 (1860~6050)	
	HEATING	Btu/h	10884 (3753~13989)	13239 (3650~15865)	19039 (5050~19517)	
		W	3190 (1100~4100)	3880 (1070~4650)	5580 (1480~5720)	
ENERGY EFFICIENCY	EER	W/W	3.68	3.61	3.21	
	COP	W/W	4.03	3.79	3.28	
REFRIGERANT	Type	R410A				
POWER SUPPLY	V/Ph/Hz	220-240/1/50				
COOLING ONLY MODEL		INDOOR MODEL	A5CKY10C	A5CKY15C	A5CKY20C	
		OUTDOOR MODEL	A5LCY10D	A5LCY15D	A5LCY20C	
RATED COOLING CAPACITY (MIN ~ MAX)		Btu/h	9792 (4026~11942)	12385 (5254~13306)	18118 (6346~20643)	
		W	2870 (1180~3500)	3630 (1540~3900)	5310 (1860~6050)	
ENERGY EFFICIENCY	EER	W/W	3.68	3.61	3.21	
INDOOR UNIT	AIR FLOW (H/M/L)	CFM	410/360/330	410/360/330	450/410/340	
	SOUND PRESSURE LEVEL (H/M/L)	dBA	41/38/35	41/38/35	44/41/37	
	UNIT DIMENSION	HEIGHT [WITH PANEL]	mm	250 [295]	250 [295]	250 [295]
		WIDTH [WITH PANEL]	mm	570 [640]	570 [640]	570 [640]
		DEPTH [WITH PANEL]	mm	570 [640]	570 [640]	570 [640]
UNIT WEIGHT [WITH PANEL]	kg	22 [24]	23 [25]	23 [25]		
OUTDOOR UNIT	SOUND PRESSURE LEVEL	dBA	47	49	51	
	UNIT DIMENSION	HEIGHT	mm	550	550	753
		WIDTH	mm	765	765	855
		DEPTH	mm	285	285	328
UNIT WEIGHT	kg	31	33	49		
PIPE LENGTH	PRE-CHARGED	m	7.5	7.5	7.5	
	MAXIMUM	m	15	15	30	
PIPE CONNECTION SIZE	LIQUID	mm	6.35	6.35	6.35	
	GAS	mm	9.52	12.70	12.70	
OPERATING RANGE (MIN~MAX)	COOLING	°C DB	-10 ~ 46	-10 ~ 46	-10 ~ 46	
	HEATING	°C WB	-15 ~ 18	-15 ~ 18	-15 ~ 18	

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 a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
 b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
 4) SOUND PRESSURE LEVELS ARE MEASURED IN ANECHOIC CHAMBER ACCORDING TO JIS C 9612 STANDARD.
 - NON DUCTED PRODUCT: POSITION OF MICROPHONE IS 1.0M IN FRONT AND 0.8M UNDERNEATH THE UNIT.
 - DUCTED PRODUCT: POSITION OF MICROPHONE IS 1.4 M UNDERNEATH THE UNIT AND WITH 2M RETURN & DISCHARGE DUCT LENGTH.

INVERTER... ACSON INGENUITY INSIDE



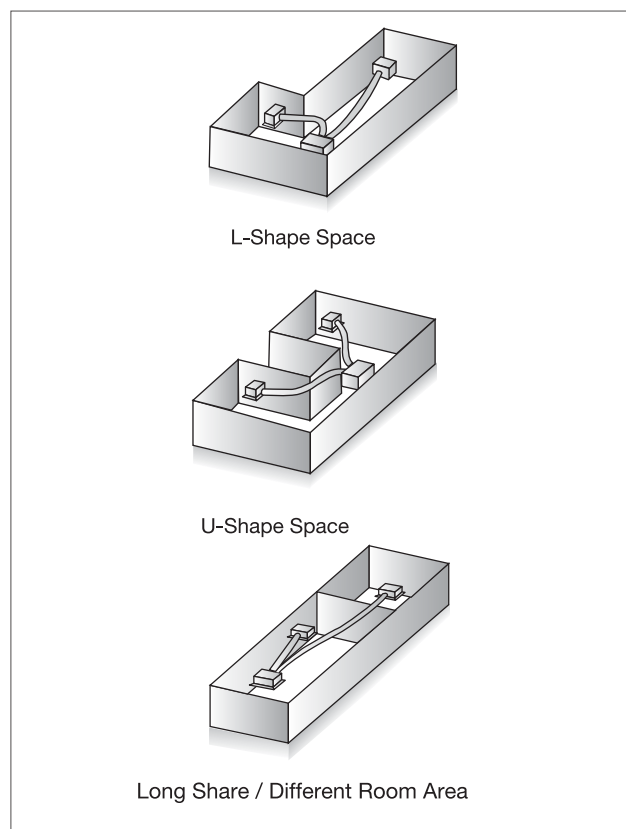
Inverter Ceiling Concealed series



A5CCY 10/15/20/25C/CR
A5CCY 28/38/50/60CR
 Cooling Capacity (kW) : 2.4 - 14.0
 Heating Capacity (kW) : 2.7 - 16.6

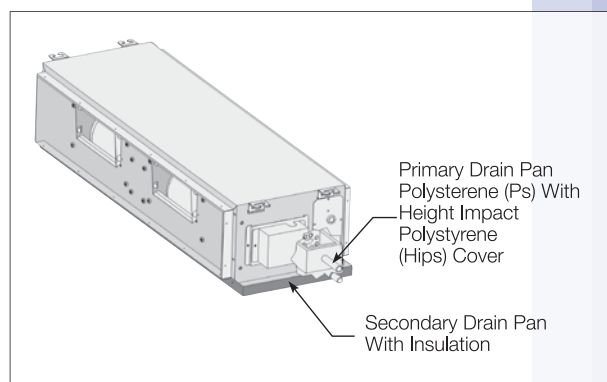
Excellent Air Distribution

The conditioned air can be distributed evenly to every corner of the room through ducting. This helps to create a pleasant environment and maintain comfort. Furthermore, multiple area can be conditioned simultaneously by using just one indoor units.



Double Protection Drainage System

The primary drain pan is designed with high thermal insulation material and moulded in gradient for better condensate water drainage. The extra secondary drain pan "built in" to the standard unit offers extra protection against possible water leaking problems.



Self Diagnosis Features

The microprocessor provides the possibility to detect and to diagnose any faults that occurs in the system. Faults are displayed as error code in the wired controller. This will ease the troubleshooting process

Two Selectable Temperature Sensor

Both Ceiling Concealed and SLM 9 are built in with temperature sensor. This allows the flexibility to select the return air temperature depending on the application.



Standard LCD Wired Controller

The Ceiling Concealed C Series is supplied with SLM 9 as the standard wired controller. This wired controller with a large LCD screen with every information of the unit easily visible. It also comes with 2 sets 7 days programmable timer.

Specifications

Single-Split Y-Inverter Ceiling Concealed C-Series

HEATPUMP MODEL		INDOOR MODEL	A5CCY10CR	A5CCY15CR	A5CCY20CR	A5CCY25CR
		OUTDOOR MODEL	A5LCY10DR	A5LCY15DR	A5LCY20CR	A5LCY25CR
RATED CAPACITY (MIN ~ MAX)	COOLING	Btu/h	8769 (4504~11361)	12522 (5050~12829)	17742 (6892~20472)	20643 (6346~20643)
		W	2570 (1320~3330)	3670 (1480~3760)	5200 (2020~6000)	6050 (1860~6050)
	HEATING	Btu/h	9451 (2389~12897)	12624 (3719~14671)	19687 (5391~22895)	21873 (5357~22758)
ENERGY EFFICIENCY	W	2770 (700~3780)	3700 (1090~4300)	5770 (1580~6710)	6400 (1570~6670)	
	EER	W/W	3.25	3.37	3.29	3.21
REFRIGERANT	W/W		3.41	3.47	3.45	3.66
	COP	Type				
POWER SUPPLY	V/Ph/Hz			R410A		
				220-240/1/50		
COOLING ONLY MODEL		INDOOR MODEL	A5CCY10C	A5CCY15C	A5CCY20C	A5CCY25C
		OUTDOOR MODEL	A5LCY10D	A5LCY15D	A5LCY20C	A5LCY25C
RATED COOLING CAPACITY (MIN ~ MAX)	COOLING	Btu/h	8769 (4504~11361)	12522 (5050~12829)	17742 (6892~20472)	20643 (6346~20643)
		W	2570 (1320~3330)	3670 (1480~3760)	5200 (2020~6000)	6050 (1860~6050)
ENERGY EFFICIENCY	EER	W/W	3.25	3.37	3.29	3.21
	AIR FLOW (H/M/L)	CFM	118/111/99	194/175/118	269/255/213	326/302/245
INDOOR UNIT	EXTERNAL STATIC PRESSURE (H/M/L)	Pa	29/20/10	29/20/10	29/20/10	29/20/10
	SOUND PRESSURE LEVEL (H/M/L)	dBA	35/32/26	37/34/29	38/36/34	40/39/36
INDOOR UNIT	UNIT DIMENSION	HEIGHT	mm	261	261	261
		WIDTH	mm	905	905	1065
		DEPTH	mm	411	411	411
INDOOR UNIT	UNIT WEIGHT	kg	21	21	22	25
		SOUND PRESSURE LEVEL	dBA	47	52	51
OUTDOOR UNIT	UNIT DIMENSION	HEIGHT	mm	550	550	753
		WIDTH	mm	765	765	855
		DEPTH	mm	285	285	328
OUTDOOR UNIT	UNIT WEIGHT	kg	31	49	49	49
		PIPE LENGTH	PRE-CHARGED	m	7.5	7.5
PIPE CONNECTION SIZE	MAXIMUM	m	15	15	30	30
	LIQUID	mm	6.35	6.35	6.35	6.35
OPERATING RANGE (MIN-MAX)	GAS	mm	9.52	12.70	12.70	15.88
	COOLING	°C DB	-10 ~ 46	-10 ~ 46	-10 ~ 46	-10 ~ 46
OPERATING RANGE (MIN-MAX)	HEATING	°C WB	-15 ~ 18	-15 ~ 18	-15 ~ 18	-15 ~ 18

HEATPUMP MODEL		INDOOR MODEL	A5CCY28CR	A5CCY38CR	A5CCY50CR	A5CCY60CR
		OUTDOOR MODEL	A5LCY28CR	A5LCY40FR	A5LCY50FR	A5LCY60FR
RATED CAPACITY (MIN ~ MAX) - 1Φ <3Φ>	COOLING	Btu/h	24200 (6142~26956)	34800 (18084~45381) <34800 (21496~50158)>	45400 (17743~45381) <43300 (22520~52547)>	47800 (19108~50500) <47770 (36510~48794)>
		W	7100 (1800~7900)	10200 (5300~13300) <10200 (6300~14700)>	13310 (5200~13300) <12700 (6600~15400)>	14010 (5600~14800) <14000 (10700~14300)>
	HEATING	Btu/h	27600 (5100~33200)	38200 (20814~58006) <38200 (18084~60395)>	53600 (36169~57324) <47770 (15355~60395)>	56600 (19108~56642) <56200 (36510~48794)>
ENERGY EFFICIENCY - 1Φ <3Φ>	W	8100 (1500~10000)	11200 (6100~17000) <11200 (5300~17700)>	15710 (10600~16800) <14000 (4500~17700)>	16590 (5600~16600) <16500 (10700~14300)>	
	EER	W/W	3.21	3.17 <3.29>	3.65 <3.29>	3.31 <3.05>
REFRIGERANT	COP	W/W	3.70	3.83 <3.70>	3.87 <3.62>	3.96 <3.62>
	Type				R410A	
POWER SUPPLY - 1Φ <3Φ>	V/Ph/Hz		220-240/1/50	220-240/1/50	220-240/1/50 <380-415/3/50>	
INDOOR UNIT	AIR FLOW (SH/H/M/L)	CFM	850/700/590/480	1280/1160/1050/920	1430/1320/1230/1130	1720/1550/1340/1170
	EXTERNAL STATIC PRESSURE (SH/H/M/L)	Pa	78/53/38/25	118/96/78/61	147/126/109/92	147/120/90/69
INDOOR UNIT	SOUND PRESSURE LEVEL (SH/H/M/L)	dBA	44/41/38/34	55/51/48/45	53/52/50/47	55/53/50/47
		HEIGHT	mm	285	305	378
		WIDTH	mm	1007	1302	1299
INDOOR UNIT	UNIT WEIGHT	mm	600	638	541	
		kg	35	47	50	
OUTDOOR UNIT	SOUND PRESSURE LEVEL	dBA	50	50	51	
		HEIGHT	mm	753	1374	1374
		WIDTH	mm	940	900	900
OUTDOOR UNIT	UNIT WEIGHT	mm	392	320	320	
		kg	51	100	100	
PIPE LENGTH	PRE-CHARGED	m	7.5	30	30	
	MAXIMUM	m	50	75	75	
PIPE CONNECTION SIZE	LIQUID	mm	9.52	9.52	9.52	
	GAS	mm	15.88	15.88	15.88	
OPERATING RANGE (MIN-MAX)	COOLING	°C DB	-10 ~ 46	-10 ~ 46	-10 ~ 46	
	HEATING	°C WB	-15 ~ 18	-15 ~ 18	-15 ~ 18	

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 3) COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW:
 a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
 b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
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 - DUCTED PRODUCT: POSITION OF MICROPHONE IS 1.4 M UNDERNEATH THE UNIT AND WITH 2M RETURN & DISCHARGE DUCT LENGTH.

EXPERIENCE INVERTER... INNOVATION AT ITS BEST



Inverter Ceiling Convertible series



A5CMY 15/20/25E/ER A5CMY 28/40/50ER R5CMY 62CR

Cooling Capacity (kW) : 3.6 - 14.0
Heating Capacity (kW) : 3.8 - 16.7

Ceiling or Floor Installation

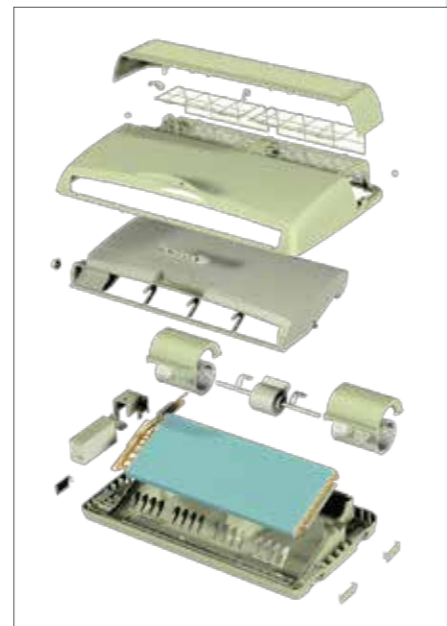
The ACM series is designed with the option install the either below the ceiling or in floor standing condition. For model A5CMY15-28ER, the unit can be mounted at low wall position*. The larger range of A5CMY40/50ER will at floor standing condition.



*Wall bracket supplied as optional item for A5CMY15-28ER.
*R5CMY62CR is only applicable for under ceiling installation.

Better Serviceability

The ACM series promote easy service. For model A5CMY15-28ER, all major components can be easily access by removing the bottom panel. For the larger range of A5CMY40/50ER, fan motor, blower & control box can be reachable with ease by only pulling down the intake grill.

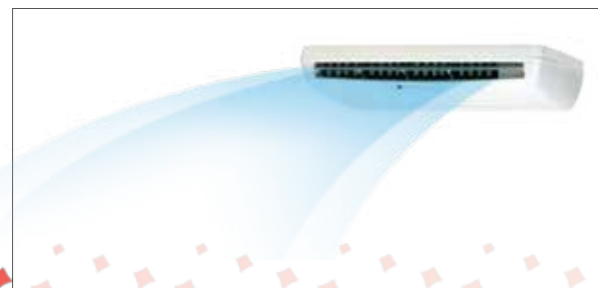


Self Diagnosis

This intelligent feature helps to detect faults or malfunctioning in the system and give user a warning by blinking of the LED lights.

Automatic Air Swing

The motorized louver enables the air flow to be evenly distributed. At the same time, negative ion will be released to provide air quality.



Specifications

Single-Split Y-Inverter Ceiling Convertible E-Series

HEATPUMP MODEL		INDOOR MODEL	A5CMY15ER	A5CMY20ER	A5CMY25ER
		OUTDOOR MODEL	A5LCY15DR	A5LCY20CR	A5LCY25CR
RATED CAPACITY (MIN ~ MAX)	COOLING	Btu/h	12249 (5936~14671)	18322 (5527~20199)	20608 (5323~21291)
		W	3590 (1740~4300)	5370 (1620~5920)	6040 (1560~6240)
ENERGY EFFICIENCY	EER	W/W	3.87	3.17	3.01
	COP	W/W	3.97	3.45	3.30
REFRIGERANT		Type	R410A		
POWER SUPPLY		V/Ph/Hz	220-240/1/50		
COOLING ONLY MODEL		INDOOR MODEL	A5CMY15E	A5CMY20E	A5CMY25E
		OUTDOOR MODEL	A5LCY15D	A5LCY20C	A5LCY25C
RATED COOLING CAPACITY (MIN ~ MAX)		Btu/h	12249 (5936~14671)	18322 (5527~20199)	20608 (5323~21291)
		W	3590 (1740~4300)	5370 (1620~5920)	6040 (1560~6240)
ENERGY EFFICIENCY		EER	W/W	3.17	3.01
INDOOR UNIT	AIR FLOW (H/M/L)	CFM	508/386/350	520/460/406	580/530/490
	SOUND PRESSURE LEVEL (H/M/L)	dB(A)	48/43/41	50/43/41	53/51/49
UNIT DIMENSION	HEIGHT	mm	212	212	212
	WIDTH	mm	1090	1090	1090
	DEPTH	mm	630	630	630
UNIT WEIGHT		kg	25	27	27
OUTDOOR UNIT	SOUND PRESSURE LEVEL	dB(A)	49	51	51
	HEIGHT	mm	550	753	753
UNIT DIMENSION	WIDTH	mm	765	855	855
	DEPTH	mm	285	328	328
UNIT WEIGHT		kg	33	49	49
PIPE LENGTH		PRE-CHARGED	m	7.5	7.5
		MAXIMUM	m	15	30
PIPE CONNECTION SIZE		LIQUID	mm	6.35	6.35
		GAS	mm	12.70	15.88
OPERATING RANGE (MIN-MAX)		COOLING	°C DB	-10 ~ 46	-10 ~ 46
		HEATING	°C WB	-15 ~ 18	-15 ~ 18

HEATPUMP MODEL		INDOOR MODEL	A5CMY28ER	A5CMY40ER	A5CMY50ER	R5CMY62CR
		OUTDOOR MODEL	A5LCY28CR	A5LCY40FR	A5LCY50FR	A5LCY60FR
RATED CAPACITY (MIN ~ MAX) - 1Φ <3Φ>	COOLING	Btu/h	23200 (5801~25591)	34100 (17061~38557) <34100 (31392~48794)>	43000 (20814~48452) <42600 (24567~46746)>	47800 (19108~47770) <44300 (33780~45040)>
		W	6800 (1700~7500)	10000 (5000~11300) <10000(9200~14300)>	12600 (6100~14200) <12500(7200~13700)>	14010 (5600~14000) <13000 (9900~13200)>
ENERGY EFFICIENCY - 1Φ <3Φ>	EER	W/W	2.81	3.05 <3.23>	3.50 <3.01>	2.87 <2.66>
	COP	W/W	3.01	3.90 <3.61>	3.55 <3.61>	3.51 <3.61>
REFRIGERANT		Type	R410A			
POWER SUPPLY - 1Φ <3Φ>		V/Ph/Hz	220-240/1/50	220-240/1/50 <380-415/3/50>		
INDOOR UNIT	AIR FLOW (H/M/L)	CFM	1053/968/883	1100/983/877	1215/1082/959	1550/1320/1000
	SOUND PRESSURE LEVEL (H/M/L)	dB(A)	56/51/44	52/47/46	52/50/49	56/53/46
UNIT DIMENSION	HEIGHT	mm	218	260	260	285
	WIDTH	mm	1080	1538	1786	1930
	DEPTH	mm	630	634	634	608
UNIT WEIGHT		kg	27	45	65	70
OUTDOOR UNIT	SOUND PRESSURE LEVEL	dB(A)	50	50	51	51
	HEIGHT	mm	753	1374	1374	1374
UNIT DIMENSION	WIDTH	mm	940	900	900	900
	DEPTH	mm	392	320	320	320
UNIT WEIGHT		kg	51	100	100	100
PIPE LENGTH		PRE-CHARGED	m	7.5	30	30
		MAXIMUM	m	50	75	75
PIPE CONNECTION SIZE		LIQUID	mm	9.52	9.52	9.52
		GAS	mm	15.88	15.88	15.88
OPERATING RANGE (MIN-MAX)		COOLING	°C DB	-10 ~ 46	-10 ~ 46	-10 ~ 46
		HEATING	°C WB	-15 ~ 18	-15 ~ 18	-15 ~ 18

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- 3) COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW:
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 - B) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
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INVERTER... ACSON INGENUITY INSIDE

Inverter Multi-Split series

NEW



A5MSY 20/25/30BR

A5MSY 18BR
A5MSY 20/25/30BR
 Cooling capacity (kW) : 4.0 - 7.6
 Heating capacity (kW) : 4.4 - 8.4



A5MSY 18BR



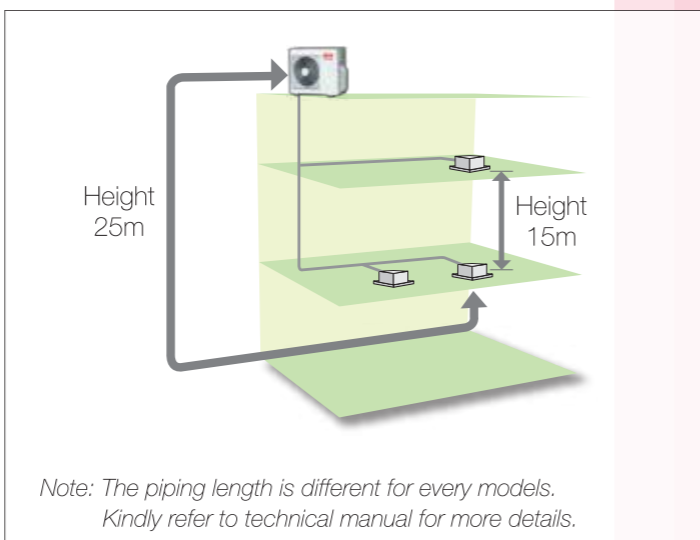
Flexibility in Application and Installation

Whenever installation space is limited or building aesthetics is a priority, Acson offers the DC inverter multi-split system solution.

With combination of inverter and multi-split technology, Acson's range of product offering is available for double, triple and quadruple indoor connections. Flexibility is also extended to different types of indoor units in the same system. For example, A5MSY20BR can be connected to A5WMMY10LR in the bedroom and A5CKY15CR in the living room together in the same system.

Long Piping Application

The total piping length inverter multisplit system is 60 meters, with an elevation of 15 meters. The allowable individual unit of piping runs at 25 meters. These parameters can easily accommodate various building design.



Advantages

Comprehensive Choices Of Indoor Units

Wide choice of different types of indoor units : Wall Mounted, Ceiling Cassette, Ceiling Convertible, Ceiling Concealed.

Indoor Unit	Outdoor			
	A5MSY18BR (1 - to - 2 system)	A5MSY20BR (1 - to - 2 system)	A5MSY25BR (1 - to - 3 system)	A5MSY30BR (1 - to - 4 system)
2 X	10 + 10	10 + 10	10 + 10	10 + 10
	10 + 15	10 + 15	10 + 15	10 + 15
		10 + 20	10 + 20	10 + 20
		15 + 15	15 + 15	15 + 15
		15 + 20	15 + 20	15 + 20
3 X			20 + 20	20 + 20
			10 + 10 + 10	10 + 10 + 10
			10 + 10 + 15	10 + 10 + 15
			10 + 10 + 20	10 + 10 + 20
			10 + 15 + 15	10 + 15 + 15
4 X			10 + 15 + 20	10 + 15 + 20
			15 + 15 + 15	15 + 15 + 15
				10 + 10 + 10 + 10
				10 + 10 + 10 + 15

Available for all indoor units:
 * A5WMMY-JR/LR, A5CKY-CR, A5CMY-ER, A5CCY-CR

10 - Size 1.0hp 15 - Size 1.5hp 20 - Size 2.0hp



Inverter Multi-Split series

Better Energy Saving

The A5MSY-BR series achieve high energy rating in cooling and heating cycle. This is achievable through the state-of-the-art system control, complemented by the highly efficient components.

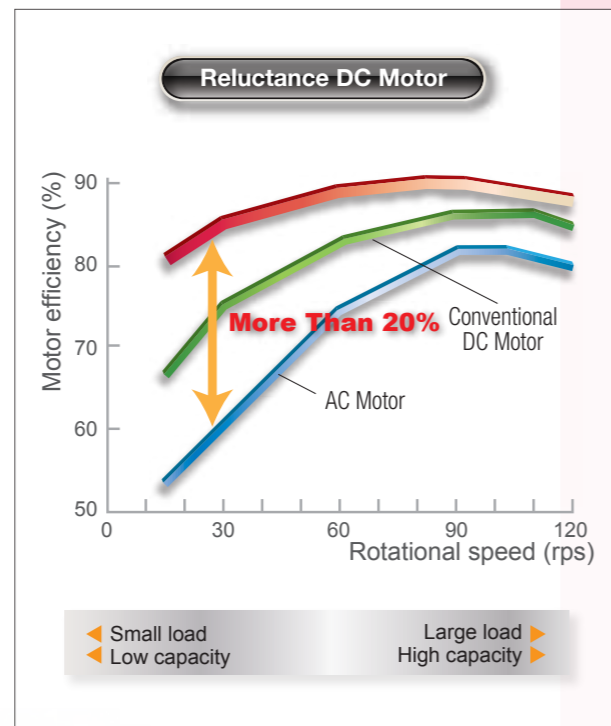
Swing Compressor

The A5MSY-BR series is utilizing the hermetically sealed Swing Compressor. Its precise structure and mechanical movement help to reduce friction and vibration of conventional rotary type of compressor. This help to reduce the leakage of refrigerant gas during compression and ensure maximum capacity is achieved, thus improving the efficiency of the compressor.



DC Fan Motor

With more breakthrough in technology, high efficiency fan motor is no more just a dream. The highly efficient reluctance DC fan motor improve the efficiency 20% higher than conventional AC motor. This reduction helps to reduce the energy consumption while maintaining the same air flow.



Specifications

Multi-Split Y-Inverter Outdoor B-Series

HEAT PUMP MODEL		MODEL NAME	A5MSY18BR	A5MSY20BR	A5MSY25BR	A5MSY30BR
		TYPE	1-to-2	1-to-2	1-to-3	1-to-4
RATED CAPACITY (MINIMUM-MAXIMUM)	COOLING	W	4000 (1300-4500)	5400 (1500-6200)	6500 (1000-7650)	7600 (120 - 9100)
		Btu/h	13650 (4400 - 15400)	18400 (5100-21200)	22200 (3400-26100)	26000 (4100 - 31000)
	HEATING	W	4400 (800-5100)	6400 (700-6900)	7400 (900-8200)	8400 (900-9000)
		Btu/h	15000 (2700-17400)	21800 (2400-23500)	25200 (3100-28000)	28700 (3100-30700)
RATED POWER CONSUMPTION	COOLING	kW	1050	1381	1702	2110
	HEATING	kW	1040	1495	1749	2054
ENERGY EFFICIENCY	EER	W/W	3.81	3.91	3.82	3.62
	COP	W/W	4.23	4.28	4.22	3.61
POWER SUPPLY		(V / Ph / Hz)	220 - 240 / 1 / 50			
SOUND LEVEL		dBA	47	48	49	49
UNIT DIMENSION	HEIGHT	mm	550	753		
	WIDTH	mm	765	940		
	DEPTH	mm	293	392		
UNIT WEIGHT		kg	34	45	55	55
REFRIGERANT		TYPE	R410A (ZERO OZONE-DEPLETION POTENTIAL)			
PIPE LENGTH	PRE-CHARGED	m	15	30	30	30
	MAXIMUM TOTAL	m	30	50	60	60
	MAXIMUM INDIVIDUAL INDOOR	m	20	25	25	25
PIPE CONNECTION SIZE	LIQUID	mm (in)	2 X 6.35 (1/4)	2 X 6.35 (1/4)	3 X 6.35 (1/4)	4 X 6.35 (1/4)
	GAS	mm (in)	2 X 9.52 (3/8)	2 X 12.7 (1/2)	1 X 9.52 (3/8) 2 X 12.7 (1/2)	2 X 9.52 (3/8) 2 X 12.7 (1/2)
OPERATING RANGE (MINIMUM - MAXIMUM)	COOLING	°C DB	10 ~ 46	10 ~ 46	10 ~ 46	10 ~ 46
	HEATING	°C WB/DB	-15 ~ 24 / -16 ~ 18	-15 ~ 24 / -16 ~ 18	-15 ~ 24 / -16 ~ 18	-15 ~ 24 / -16 ~ 18

Indoor Models

WALL-MOUNTED J-SERIES		MODEL NAME	A5WMY10LR	A5WMY15LR	A5WMY20JR
SOUND LEVEL (MINIMUM/MAXIMUM)		dBA	21 / 40	28 / 42	33 / 41
AIR FLOW RATE (HIGH)		CFM (l/s)	324 (153)	358 (169)	529 (250)
UNIT DIMENSION	HEIGHT	mm	288	288	310
	WIDTH	mm	800	800	1065
	DEPTH	mm	206	206	224
UNIT WEIGHT		kg	9	9	14
CEILING-CASSETTE C-SERIES		MODEL NAME	A5CKY10CR	A5CKY15CR	A5CKY20CR
SOUND LEVEL (MINIMUM/MAXIMUM)		dBA	35 / 41	34 / 41	37 / 44
AIR FLOW RATE		CFM (l/s)	400 (194)	410 (194)	450 (212)
UNIT DIMENSION (WITH PANEL)	HEIGHT	mm	250 (295)		
	WIDTH	mm	570 (640)		
	DEPTH	mm	570 (640)		
UNIT WEIGHT (WITH PANEL)		kg	22 (24)	23 (25)	23 (25)
CEILING-CONCEALED C-SERIES		MODEL NAME	A5CCY10CR	A5CCY15CR	A5CCY20CR
SOUND LEVEL (MINIMUM/MAXIMUM)		dBA	26 / 35	29 / 37	34 / 38
AIR FLOW RATE (HIGH)		CFM (l/s)	365 (172)	410 (194)	570 (269)
EXTERNAL STATIC PRESSURE (HIGH)		Pa (in WG)	29 (0.12)	29 (0.12)	29 (0.12)
UNIT DIMENSION	HEIGHT	mm	261		
	WIDTH	mm	905		
	DEPTH	mm	411		
UNIT WEIGHT		kg	21	21	22
CEILING-CONVERTIBLE E-SERIES		MODEL NAME	A5CMY15ER	A5CMY20ER	
SOUND LEVEL (MINIMUM/MAXIMUM)		dBA	41 / 48	41 / 50	
AIR FLOW RATE (HIGH)		CFM (l/s)	508 (240)	520 (245)	
OUTLINE DIMENSION	HEIGHT	mm	218		
	WIDTH	mm	1080		
	DEPTH	mm	630		
UNIT WEIGHT		kg	25	27	

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- 3) COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW:
 - a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
 - b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
- 4) SOUND PRESSURE LEVELS ARE MEASURED IN ANECHOIC CHAMBER ACCORDING TO JIS C 9612 STANDARD.
 - NON DUCTED PRODUCT: POSITION OF MICROPHONE IS 1.0M IN FRONT AND 0.8M UNDERNEATH THE UNIT.
 - DUCTED PRODUCT: POSITION OF MICROPHONE IS 1.4 M UNDERNEATH THE UNIT AND WITH 2M RETURN & DISCHARGE DUCT LENGTH.



