

# CHILLED WATER SYSTEM

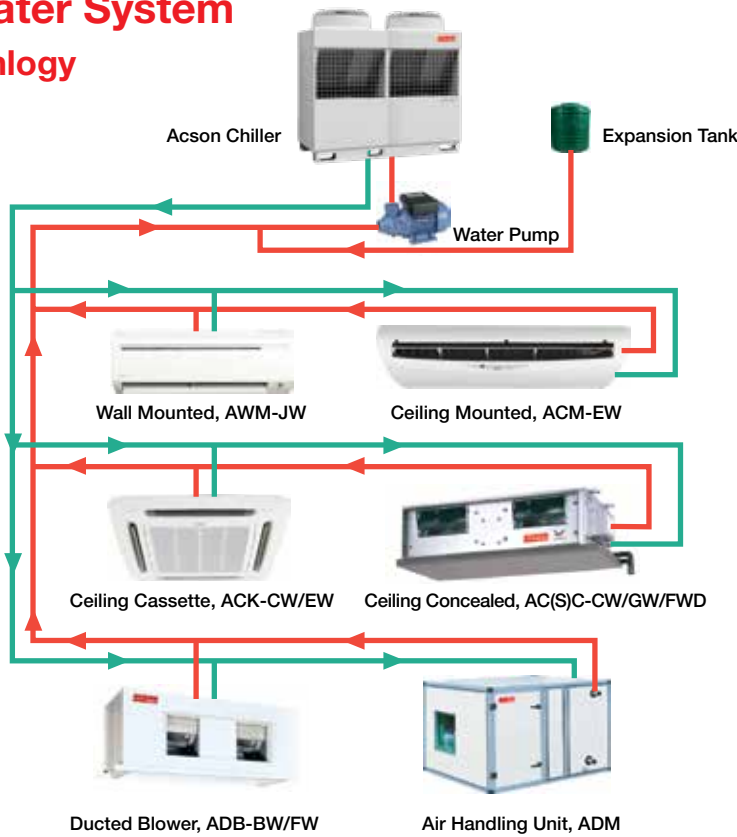
Hydro Technology

**A5MACY-E (VRA)**  
**A5MAC-D**  
**AMAC-C / A4AC-C**  
**A5AC-CR / A5MAC-ER**  
**A5MWC-BR**  
**CHILLED WATER FAN COIL UNIT**





## Chilled Water System Hydro Technology



Acson Chilled Water System could use air or water to cool down the refrigerant circuit. The cooled refrigerant is then circulated to a Brazed Plate Heat Exchanger (BPHE) where heat exchange will take place to cool down the water or glycol laced water. The chilled water is then circulated to the Fan Coil Unit (FCU) to cool desired place.

\*Picture is for illustration purpose only.

## Common Features

### ✔ Long Piping Applications

Unlike normal Direct Expansion system with constraints in piping design and installation, Acson Chilled Water System allows for long piping application by correct pump sizing. All refrigerant circuit is within the system making it no risk of leakage in building and no oil return issue.

### ✔ Partial Loading

Acson Chilled Water System is designed with two or more separate refrigerant circuits with multiple compressors. By doing so, the unit has part load capabilities. This will improve the reliability and energy efficiency especially during low loading operations.

\* Mini Chiller - Applicable for A(4)MAC80~150C, A5AC30~55CR, A5MAC30~150ER

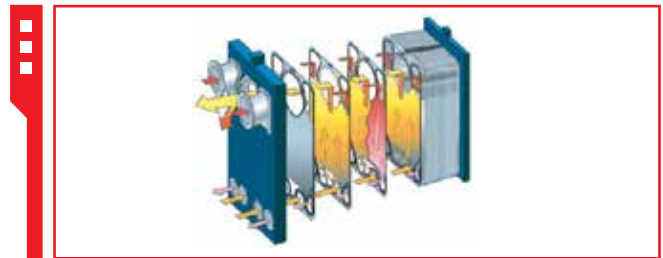
\*\* Modular Chiller - Applicable for A5MAC210D~3360D, A5MAC230D~3680D, A5MACY230E~3680E, A5MAC340D~5440D, A5MAC450D~7200D, A5MWC20~320BR, A5MWC30BR~480BR & A5MWC40~640BR

### ✔ Time and Cost Saving

As the unit is fully assembled in the factory and pass through a series of stringent quality control and assurance processes, mind is rest assured when installing the system. Refrigerant is also precharged to reduce the hustle of field charging and cost saving.

### ✔ Brazed Plate Heat Exchanger

The heat exchanger is made of AISI 316 stainless steel plates closely arranged and brazed together to maximize heat exchange for higher efficiency.



### ✔ R410A

Environmental friendly R410A refrigerant system with zero Ozone Depletion Potential (ODP) is available upon request.

### ✔ Compact Size

The Chilled Water System is so compact that it can be integrated perfectly with any architectural design, making it an ideal choice for house, office, restaurant and shop.

## Air Cooled Modular Chilled Inverter E-Series (VRA)



**Model:**  
A5MACY 230E

**Cooling Capacity:**  
66 kW to 1056 kW

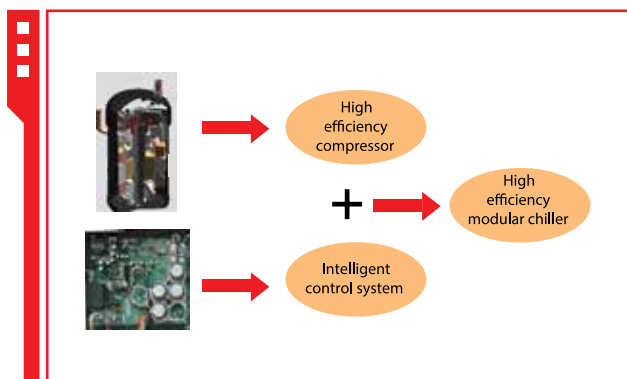
**Refrigerant:**  
R410A

Acson is committed to offer the new high efficiency inverter air-cooled modular chiller that meets the challenging need of today's market. With advanced technology, it combines both the benefits of R410A refrigerant and inverter in 1 united body. It is proper designed to provide the best coefficient of performance by option of using variable speed compressor instead of fixed-speed compressor to ensure the end product is compatible with various applications. Air-cooled Modular Chiller Inverter E Series is surely a people oriented solution for the next generation.

### Features

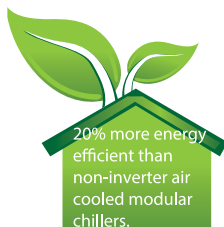
#### ✓ R410A leading-edge Inverter Technology

By advanced DC inverter technology, it provides the outstanding energy efficient performance. The module is equipped with a DC inverter compressor and fan motor, as well as intelligent inverter control system. The inverter driven feature multi speed driven compressors precisely match their output capacity according to load requirement, so that the module is always maintain at optimal energy efficiency operation.



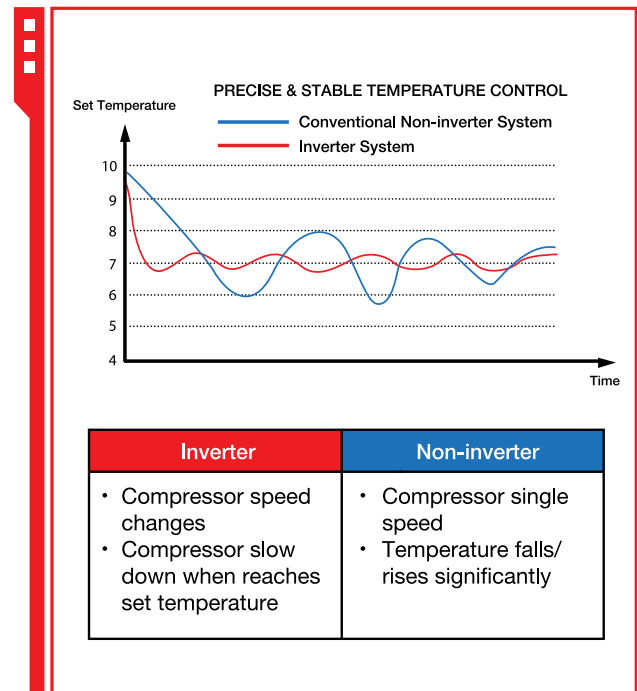
#### ✓ More Efficient

R410A inverter air-cooled modular chiller adopts the extreme DC inverter Hermetic Scroll Compressors technology. Significantly greater efficiency with IPLV as high as 4.36 and COP up to 3.38, it is making a new breakthrough in energy saving.



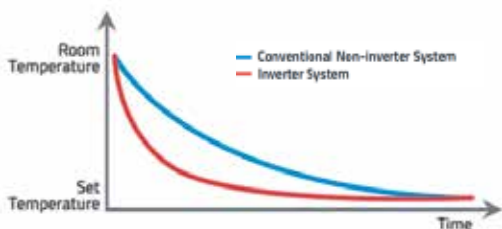
#### ✓ Precise Temperature Control

The unique Inverter keeps room temperature stable by controlling the compressor at variable speed with minimum temperature fluctuation. Thus, each unit auto adaptive to real capacity needs for a high level of comfort.



### ✓ Rapid Cooling

Utmost operation performance shorter cooling time



Inverter	Non-inverter
<ul style="list-style-type: none"> <li>• Maximum compressor speed when turned on</li> <li>• Reaches set temperature faster</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed compressor speed</li> <li>• Time to reach set temperature depend on heat gain</li> </ul>

### ✓ Low Inrush Current

Inverter driven compressor requires lower starting torque which features soft start to ensure a smooth ramp up profile without withdrawing high current. This aspect avoid peak fluctuation that potential to harm sensitive equipment and no need of expensive additional components for power factor correction.



Starting Current reduce

### ✓ Expandable Capacity

The beauty of modular design feature new levels of unit compact in size and configuration which facilitates flexibility in expands of capacity for building extension by arbitrary combination up to 16 units to cater to additional cooling requirements.



### ✓ Redundant Operation

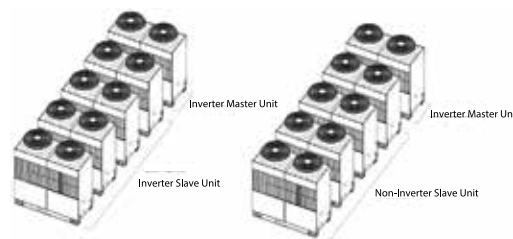
Redundancy feature back up capacity and capabilities to continue to run given a component failure. Fault of any unit can be isolated for service and will not affect the normal operation of other units.



### ✓ Diverse System Solution

Fully inverter modules  
[Inverter master unit + N × Inverter slave unit]

Mix modules  
[Inverter master unit + N × Non-Inverter slave unit]



### ✓ Supply Fresh Air Regulation

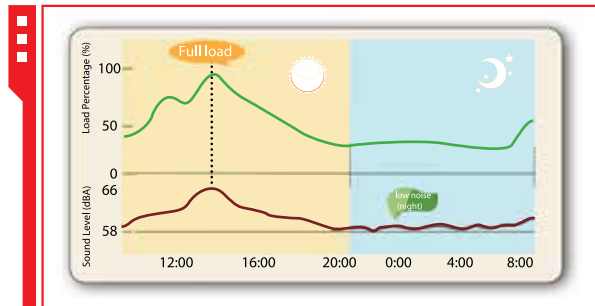
Able to couple with different Air Handling Unit (AHU) and Fan Coil Unit (FCU) which fresh air can be easily introduce from outside and extract stale air to the outside thus improve Indoor Air Quality (IAQ).

### ✓ Relative Humidity Control

Control of temperature and relative humidity can be achieved precisely by adding accessories such as heating coil, electrical heater and Precision Air-conditioner.

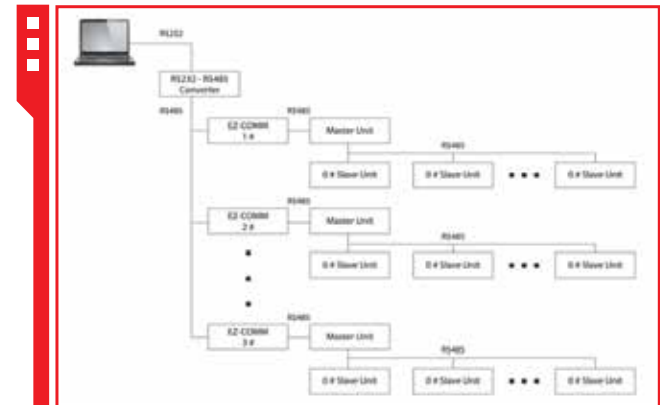
### Practically Silent Operation

The inverter sound performance introduces sound level as low as 58dBA with respect to conventional unit. At part-load conditions, typical at the night, the inverter device adjust speed variation to have lower sound levels than conventional on-off compressor systems in both running and start-up periods.



### Ez-Comm for ModBus Communication (optional)

The Ez-Comm is a data converter that coordinates Acson modular chiller unit control system and controls inter-system communications based on the ModBus communication protocol. It automatically converts the internal communication protocol of Acson modular chiller unit into the ModBus communication protocol to ensure that the unit is connected to the BAS system that is based on the ModBus RTU communication protocol and uses the RS485 communication mode.



## A5MACY 230E - A5MACY 1380E (R410A)

### SPECIFICATIONS

Model		A5MACY 230E	A5MACY 460E	A5MACY 690E	A5MACY 920E	A5MACY 1150E	A5MACY 1380E
Nominal Cooling Capacity	BTU/h	225,200	450,400	675,600	900,800	1,126,000	1,351,200
	kW	66.00	132.00	198.00	264.00	330.00	396.00
Nominal Total Input Power	kW	19.50	39.00	58.50	78.00	97.50	117.00
Nominal Running Current	A	38.00	76.00	114.00	152.00	190.00	228.00
EER	BTU/h/W	11.55					
COP	W/W	3.38					
IPLV		4.36					
Power Source	V/Ph/Hz	380 ~ 415 / 3 / 50					
Refrigerant Control		EXV					
Sound Pressure Level	dBA	66	69	71	72	73	74
Nominal Water Flow Rate	m <sup>3</sup> /h	11.4	22.8	34.2	45.6	57	68.4
Nominal Water Pressure Drop	kPa	46	92	138	184	230	276
Pipe	Size	mm (in) 50.8 (2)					
	Height	mm (in) 1,840 (72)					
	Width	mm (in) 1,990 (78)					
	Depth	840 (33)	2,080 (82)	3,320 (131)	4,560 (180)	5,800 (228)	7,040 (277)
Unit Dimension	Height	mm(in) 1,985 (78)					
	Width	mm(in) 2,090 (82)					
	Depth	mm (in) 910 (36)					
Packing Dimension (Individual)	Height	mm(in) 1,985 (78)					
	Width	mm(in) 2,090 (82)					
	Depth	mm (in) 910 (36)					
Net Weight	kg (lb)	565 (1,914)	1,130 (2,491)	1,695 (3,737)	2,260 (4,982)	2,825 (6,228)	3,390 (7,474)
Gross Weight	kg (lb)	605 (1,958)	1,210 (2,668)	1,815 (4,001)	2,420 (5,335)	3,025 (6,669)	3,630 (8,003)
Refrigerant	Type	R410A					
	Charge	kg (lb)	16 (35)	32 (71)	48 (106)	64 (141)	80 (176)


- Notes:  
 1. Unit dimension is taken assuming units is stacked front facing the back and with installation clearance  
 2. Nominal cooling capacity are based on the conditions below:

Arbitrary combination up to 16 modules

Mode		Cooling
Evaporator	Leaving Water Temperature	7°C
Condenser	Ambient Temperature	35°C DB / 24° C WB
Nominal Flow Rate		0.172 m <sup>3</sup> /h.kW

3. Nominal water flow rate and pressure drop is based on series installation method.  
 4. All specifications are subjected to change by the manufacturer without prior notice.

## Air Cooled Modular Chiller D Series

Model					
		A5MAC 210D-3360D	A5MAC 230D-3680D	A5MAC 340D-5440D	A5MAC 450D-7200D
Cooling Capacity	kW	60 - 960	65 - 1040	100 - 1600	135 - 2160
Refrigerant		R410A			

## Features

### Modular Design

The modular chiller allows for combination of up to 16 base modules unit for D series where each module can be connected to form a much larger system.

Base Module	A5MAC 210D	A5MAC 230D	A5MAC 340D	A5MAC 450D
Modular Chiller D Series	A5MAC 420D	A5MAC 460D	A5MAC 680D	A5MAC 900D
	A5MAC 630D	A5MAC 690D	A5MAC 1020D	A5MAC 1350D
	A5MAC 840D	A5MAC 920D	A5MAC 1360D	A5MAC 1800D
	A5MAC 1050D	A5MAC 1150D	A5MAC 1700D	A5MAC 2250D
	A5MAC 1260D	A5MAC 1380D	A5MAC 2040D	A5MAC 2700D

### Low Noise Operation

The specially designed spiral blades ensure smooth air flow, significantly reducing the turbulence and lowering sound level.

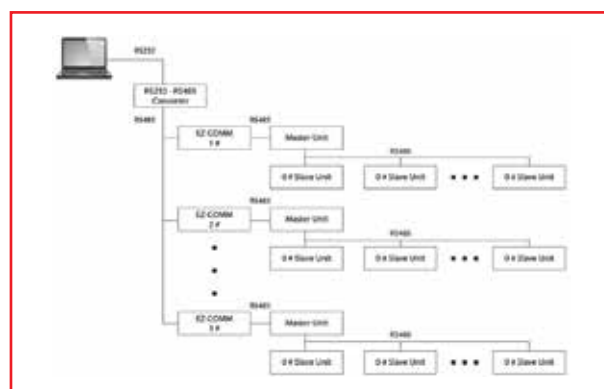


### Intelligent Control System with Safety Protection

An user friendly intelligent control system is built into the modular chiller. Microchip and large-scaled LCD display are employed to make the control swift and easy. The modular chiller is equipped with a series of safety control including the high/low pressure switch to ensure safe operation .

### Ez-Comm for ModBus Communication

The Ez-Comm is a data converter that coordinates Acson modular chiller unit control system and controls inter-system communications based on the ModBus communication protocol. It automatically converts the internal communication protocol of Acson modular chiller unit into the ModBus communication protocol to ensure that the unit is connected to the BAS system that is based on the ModBus RTU communication protocol and uses the RS485 communication mode.



Note:  
 A5MAC 340D & A5MAC 450D ModBus is built-in.  
 A5MAC 210D & A5MAC 230D is optional.  
 Please consult us for more details.

A5MAC 210D - A5MAC 1260D (R410A)

▼ SPECIFICATIONS

Model			A5MAC 210D	A5MAC 420D	A5MAC 630D	A5MAC 840D	A5MAC 1050D	A5MAC 1260D
Nominal Cooling Capacity	BTU/h		204,700	409,400	614,100	818,800	1,023,500	1,228,200
	kW		60.00	120.00	180.00	240.00	300.00	360.00
Nominal Total Input Power	kW		18.80	37.60	56.40	75.20	94.00	112.80
Nominal Running Current	A		36.00	72.00	108.00	144.00	180.00	216.00
EER	BTU/h/W		10.89					
COP	W/W		3.19					
Power Source	V/Ph/Hz		380 ~ 415 / 3 / 50					
Refrigerant Control			EXV					
Sound Pressure Level	dB(A)		66	69	71	72	73	74
Nominal Water Flow Rate	m³/h		10.3	20.6	30.9	41.2	51.5	61.8
Nominal Water Pressure Drop	kPa		38	76	114	152	190	228
Pipe	Size	mm (in)	50.8 (2)					
Unit Dimension	Height	mm (in)	1,840 (72)					
	Width	mm (in)	1,990 (78)					
	Depth	mm (in)	840 (33)	2,080 (82)	3,320 (131)	4,560 (180)	5,800 (228)	7,040 (277)
Packing Dimension (Individual)	Height	mm (in)	2,010 (79)					
	Width	mm (in)	2,010 (79)					
	Depth	mm (in)	890 (35)					
Net Weight	kg (lb)		520 (1,146)	1,040 (2,293)	1,560 (3,439)	2,080 (4,586)	2,600 (5,732)	3,120 (6,878)
Gross Weight	kg (lb)		570 (1,257)	1,140 (2,513)	1,710 (3,770)	2,280 (5,027)	2,850 (6,283)	3,420 (7,540)
Refrigerant	Type		R410A					
	Charge	kg (lb)	11.6 (26)	23.2 (51)	34.8 (77)	46.4 (102)	58 (128)	69.6 (153)

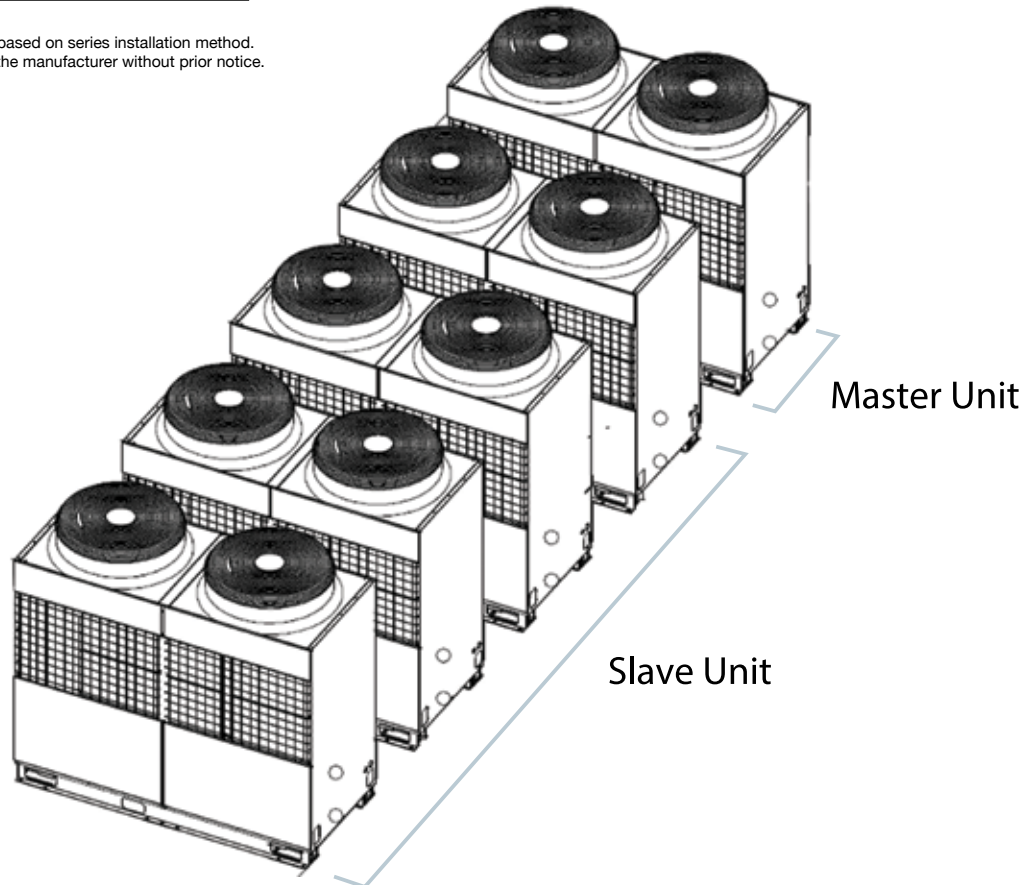
Arbitrary combination up to 16 modules

Notes:

1. Unit dimension is taken assuming units is stacked front facing the back and with installation clearance
2. Nominal cooling capacity are based on the conditions below:

Mode		Cooling
Evaporator	Leaving Water Temperature	7°C
Condenser	Ambient Temperature	35°C DB / 24° C WB
Nominal Flow Rate		0.172 m³/h.kW

3. Nominal water flow rate and pressure drop is based on series installation method.
4. All specifications are subjected to change by the manufacturer without prior notice.





## A5MAC 230D - A5MAC 1380D (R410A)

▼ SPECIFICATIONS

Model			A5MAC 230D	A5MAC 460D	A5MAC 690D	A5MAC 920D	A5MAC 1150D	A5MAC 1380D
Nominal Cooling Capacity	BTU/h		221,800	443,600	665,400	887,200	1,109,000	1,330,800
	kW		65.00	130.00	195.00	260.00	325.00	390.00
Nominal Total Input Power	kW		19.20	38.40	57.60	76.80	96.00	115.20
Nominal Running Current	A		36.9	73.8	110.7	147.6	184.5	221.4
EER	BTU/h/W		11.55					
COP	W/W		3.39					
Power Source	V/Ph/Hz		380 ~ 415 / 3 / 50					
Refrigerant Control			EXV					
Sound Pressure Level	dB(A)		66	69	71	72	73	74
Nominal Water Flow Rate	m <sup>3</sup> /h		11.2	22.4	33.6	44.8	56	67.2
Nominal Water Pressure Drop	kPa		44	88	132	176	220	264
Pipe	Size	mm (in)	50.8 (2)					
Unit Dimension	Height	mm (in)	1,840 (72)					
	Width	mm (in)	1,990 (78)					
	Depth	mm (in)	840 (33)	2,080 (82)	3,320 (131)	4,560 (180)	5,800 (228)	7,040 (277)
Packing Dimension (Individual)	Height	mm (in)	2,010 (79)					
	Width	mm (in)	2,010 (79)					
	Depth	mm (in)	890 (35)					
Net Weight	kg (lb)		520 (1,146)	1,040 (2,293)	1,560 (3,439)	2,080 (4,586)	2,600 (5,732)	3,120 (6,878)
Gross Weight	kg (lb)		570 (1,257)	1,140 (2,513)	1,710 (3,770)	2,280 (5,027)	2,850 (6,283)	3,420 (7,540)
Refrigerant	Type		R410A					
	Charge	kg (lb)	13.6 (30)	27.2 (60)	40.8 (90)	54.4 (120)	68 (150)	81.6 (180)

Arbitrary combination up to 16 modules

Notes:

- Unit dimension is taken assuming units is stacked front facing the back and with installation clearance
- Nominal cooling capacity are based on the conditions below:

Mode		Cooling
Evaporator	Leaving Water Temperature	7°C
Condenser	Ambient Temperature	35°C DB / 24° C WB
Nominal Flow Rate		0.172 m <sup>3</sup> /h.kW

- Nominal water flow rate and pressure drop is based on series installation method.
- All specifications are subjected to change by the manufacturer without prior notice.

## A5MAC 340D - A5MAC 2040D (R410A)

▼ SPECIFICATIONS

Model		A5MAC 340D	A5MAC 680D	A5MAC 1020D	A5MAC 1360D	A5MAC 1700D	A5MAC 2040D
Nominal Cooling Capacity	BTU/h	341,200	682,400	1,023,600	1,364,800	1,706,000	2,047,200
	kW	100.00	200.00	300.00	400.00	500.00	600.00
Nominal Total Input Power	kW	30.50	61.00	91.50	122.00	152.50	183.00
Nominal Running Current	A	54.4	108.8	163.2	217.6	272	326.4
EER	BTU/h/W	11.19					
COP	W/W	3.28					
Power Source	V/Ph/Hz	380 ~ 415 / 3 / 50					
Refrigerant Control		EXV					
Sound Pressure Level	dBA	67	70	71.8	73	74	74.8
Nominal Water Flow Rate	m³/h	17.2	34.4	51.6	68.8	86	103.2
Nominal Water Pressure Drop	kPa	42	84	126	168	210	252
Pipe	Type	RC (INTERNAL TAPER)					
	Size	mm (in) 63.5 (2 - 1/2)					
Unit Dimension	Height	mm (in) 2,300 (90)					
	Width	mm (in) 2,100 (83)					
	Depth	1,100 (43)	2,744 (108)	4,388 (173)	6,032 (237)	7,676 (302)	9,320 (367)
Packing Dimension (Individual)	Height	mm (in) 2,430 (96)					
	Width	mm (in) 2,175 (86)					
	Depth	mm (in) 1,150 (45)					
Net Weight	kg (lb)	860 (1,896)	1,720 (3,792)	2,580 (5,688)	3,440 (7,584)	4,300 (9,480)	5,160 (11,376)
Operating Weight	kg (lb)	880 (1,940)	1,760 (3,880)	2,640 (5,820)	3,520 (7,760)	4,400 (9,700)	5,280 (11,640)
Gross Weight	kg (lb)	870 (1,918)	1,740 (3,836)	2,610 (5,754)	3,480 (7,672)	4,350 (9,590)	5,220 (11,508)
Refrigerant	Type	R410A					
	Charge	kg (lb)	26.3 (58)	52.6 (116)	78.9 (174)	105.2 (232)	131.5 (290)

Arbitrary combination up to 16 modules

Notes:

1. Unit dimension is taken assuming units is stacked front facing the back and with installation clearance
2. Nominal cooling capacity are based on the conditions below:

Mode		Cooling
Evaporator	Leaving Water Temperature	7°C
Condenser	Ambient Temperature	35°C DB / 24° C WB
Nominal Flow Rate		0.172 m³/h.kW

3. Nominal water flow rate and pressure drop is based on series installation method.
4. All specifications are subjected to change by the manufacturer without prior notice.



## A5MAC 450D - A5MAC 2700D (R410A)

SPECIFICATIONS

Model		A5MAC 450D	A5MAC 900D	A5MAC 1350D	A5MAC 1800D	A5MAC 2250D	A5MAC 2700D
Nominal Cooling Capacity	BTU/h	460,600	921,200	1,381,800	1,842,400	2,303,000	2,763,600
	kW	135.00	270.00	405.00	540.00	675.00	810.00
Nominal Total Input Power	kW	40.30	80.60	120.90	161.20	201.50	241.80
Nominal Running Current	A	76.1	152.2	228.3	304.4	380.5	456.6
EER	BTU/h/W	11.43					
COP	W/W	3.35					
Power Source	V/Ph/Hz	380-415 / 3 / 50					
Refrigerant Control		EXV					
Sound Pressure Level	dBA	69	72	73.8	75	76	76.8
Nominal Water Flow Rate	m <sup>3</sup> /h	23.2	46.4	69.6	92.8	116	139.2
Nominal Water Pressure Drop	kPa	56	112	168	224	280	336
Pipe	Type	RC (INTERNAL TAPER)					
	Size	mm (in)					
Unit Dimension	Height	mm (in)					
	Width	mm (in)					
	Depth	1,100 (43)	2,744 (108)	4,388 (173)	6,032 (237)	7,676 (302)	9,320 (367)
Packing Dimension (Individual)	Height	mm (in)					
	Width	mm (in)					
	Depth	mm (in)					
Net Weight	kg (lb)	940 (2,072)	1,880 (4,144)	2,820 (6,216)	3,760 (8,288)	4,700 (10,360)	5,640 (12,432)
Operating Weight	kg (lb)	960 (2,116)	1,920 (4,232)	2,880 (6,348)	3,840 (8,464)	4,800 (10,580)	5,760 (12,696)
Gross Weight	kg (lb)	950 (2,094)	1,900 (4,188)	2,850 (6,282)	3,800 (8,376)	4,750 (10,470)	5,700 (12,564)
Refrigerant	Type	R410A					
	Charge	kg (lb)	30.6 (67)	61.2 (135)	91.8 (203)	122.4 (270)	153 (337)

Arbitrary combination up to 16 modules

## Notes:

- Unit dimension is taken assuming units is stacked front facing the back and with installation clearance
- Nominal cooling capacity are based on the conditions below:

Mode		Cooling
Evaporator	Leaving Water Temperature	7°C
Condenser	Ambient Temperature	35°C DB / 24° C WB
Nominal Flow Rate		0.172 m <sup>3</sup> /h.kW

- Nominal water flow rate and pressure drop is based on series installation method.
- All specifications are subjected to change by the manufacturer without prior notice.

## Water Cooled Modular Chiller Series



Model		A5MWC 020BR-320BR	A5MWC 030BR-480BR	A5MWC 040BR-640BR
Cooling Capacity	kW	69 - 1104	101 - 1616 110 - 1760 (High EER Model)	140 - 2240 145 - 2320 (High EER Model)
Refrigerant		R410A		

### Features

#### Modular Design

The modular chiller allows for combination of up to 16 base modules unit where each module can be connected to form a much larger system.

Base Module	A5MWC 20BR	A5MWC 30BR	A5MWC 40BR
Modular Chiller B Series	A5MWC 40BR	A5MWC 60BR	A5MWC 80BR
	A5MWC 60BR	A5MWC 90BR	A5MWC 120BR
	A5MWC 80BR	A5MWC 120BR	A5MWC 160BR
	A5MWC 100BR	A5MWC 150BR	A5MWC 200BR
	A5MWC 120BR	A5MWC 180BR	A5MWC 240BR

\*Arbitrary combination up to 16 modules

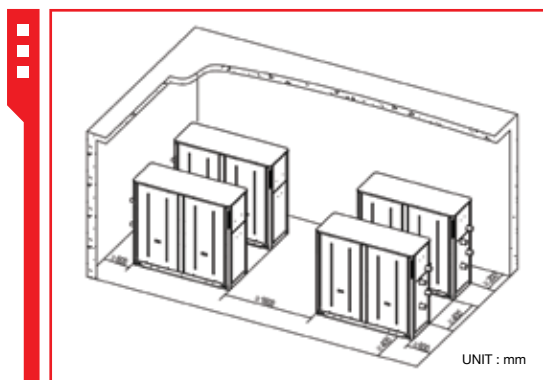
#### Reliable Operation

The fault of any compressor or the maintenance and care of any unit will not affect the normal operation of other units.



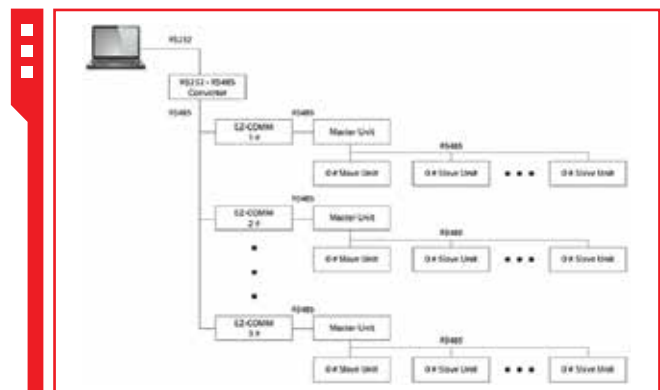
#### Change Whenever Need

It is unnecessary to fix the central air-conditioning equipment for one time to be certain combination. Instead, other modules and corresponding equipment can be added as required by the growth of the occupants. It helps to save the initial investment and the operation cost.



#### Ez-Comm for ModBus Communication

The Ez-Comm is a data converter that coordinates Acson modular chiller unit control system and controls inter-system communications based on the ModBus communication protocol. It automatically converts the internal communication protocol of Acson modular chiller unit into the ModBus communication protocol to ensure that the unit is connected to the BAS system that is based on the ModBus RTU communication protocol and uses the RS485 communication mode.



## A5MWC 20BR - A5MWC 120BR

▼ SPECIFICATIONS

Model		A5MWC 20BR	A5MWC 40BR	A5MWC 60BR	A5MWC 80BR	A5MWC 100BR	A5MWC 120BR	
Nominal Cooling Capacity	BTU/h	235,400	470,800	706,200	941,600	1,177,000	1,412,400	
	kW	69.00	138.00	207.00	276.00	345.00	414.00	
Nominal Total Input Power	kW	15.50	31.00	46.50	62.00	77.50	93.00	
Nominal Running Current	A	29.3	58.6	87.9	117.2	146.5	175.8	
EER	BTU/h/W	15.19						
	W/W	4.45						
Power Source	V/Ph/Hz	380 - 415 / 3 / 50						
Refrigerant Control		EXV						
Sound Pressure Level	dBA	63.5	66.5	68.3	69.5	70.5	71.3	
Nominal Water Flow Rate	Evaporator	m³/h	11.9	23.8	35.7	47.6	59.5	71.4
	Condenser	m³/h	14.8	29.6	44.4	59.2	74	88.8
Nominal Water Pressure Drop	Evaporator	kPa	36	72	108	144	180	216
	Condenser	kPa	56	112	168	224	280	336
Pipe	Type	R (EXTERNAL TAPER)						
	Size	mm (in)	50.8 (2)					
Unit Dimension	Height	mm (in)	1,600 (63)					
	Width	mm (in)	1,800 (71)					
	Depth	mm (in)	650 (26)	1,750 (69)	2,850 (112)	3,950 (156)	5,050 (199)	6,150 (242)
Packing Dimension (Individual)	Height	mm (in)	1,750 (69)					
	Width	Height	1,915 (75)					
	Depth	mm (in)	715 (28)					
Net Weight	kg (lb)	490 (1,080)	980 (2,161)	1,470 (3,241)	1,960 (4,321)	2,450 (5,401)	2,940 (6,482)	
Gross Weight	kg (lb)	510 (1,124)	1,020 (2,249)	1,530 (3,373)	2,040 (4,497)	2,550 (5,622)	3,060 (6,746)	
Operating Weight	kg (lb)	539 (1,078)	1,078 (2,377)	1,617 (3,565)	2,156 (4,753)	2,695 (5,941)	3,234 (7,130)	
Refrigerant	Type	R410A						
	Charge	kg (lb)	5.8 (13)	11.6 (26)	17.4 (38)	23.2 (51)	29 (64)	34.8 (77)

Arbitrary combination up to 16 modules

Notes:

- Unit dimension is taken assuming units is stacked front facing the back and with installation clearance
- Nominal cooling capacity are based on the conditions below:

Criteria		Cooling
Evaporator	Leaving Water Temperature	7°C
	Nominal Flow Rate	0.172 m³/h.kW
Condenser	Entering Water Temperature	30°C
	Nominal Flow Rate	0.215 m³/h.kW

- Nominal water flow rate and pressure drop is based on series installation method.
- All specifications are subjected to change by the manufacturer without prior notice.

## A5MWC 30BR - A5MWC 180BR (FBAE-Standard Efficiency)

▼ SPECIFICATIONS

Model		A5MWC 30BR	A5MWC 60BR	A5MWC 90BR	A5MWC 120BR	A5MWC 150BR	A5MWC 180BR	
Nominal Cooling Capacity	BTU/h	344,600	689,200	1,033,800	1,378,400	1,723,000	2,067,600	
	kW	101.00	202.00	303.00	404.00	505.00	606.00	
Nominal Total Input Power	kW	23.70	47.40	71.10	94.80	118.50	142.20	
Nominal Running Current	A	44	88	132	176	220	264	
EER	BTU/h/W	14.54						
	W/W	4.26						
Power Source	V/Ph/Hz	380 - 415 / 3 / 50						
Refrigerant Control		EXV						
Sound Pressure Level	dBA	62	65	66.8	68	69	69.8	
Nominal Water Flow Rate	Evaporator	m <sup>3</sup> /h	17.4	34.8	52.2	69.6	87	104.4
	Condenser	m <sup>3</sup> /h	21.7	43.4	65.1	86.8	108.5	130.2
Nominal Water Pressure Drop	Evaporator	kPa	28	56	84	112	140	168
	Condenser	kPa	47	94	141	188	235	282
Pipe	Type	R (EXTERNAL TAPER)						
	Size	mm (in)	50.8 (2)					
Unit Dimension	Height	mm (in)	1,600 (63)					
	Width	mm (in)	1,800 (71)					
	Depth	mm (in)	650 (26)	1,750 (69)	2,850 (112)	3,950 (156)	5,050 (199)	6,150 (242)
Packing Dimension (Individual)	Height	mm (in)	1,750 (69)					
	Width	Height	1,915 (75)					
	Depth	mm (in)	715 (28)					
Net Weight	kg (lb)	630 (1,389)	1,260 (2,778)	1,890 (4,167)	2,520 (5,556)	3,150 (6,945)	3,780 (8,333)	
Gross Weight	kg (lb)	650 (1,433)	1,300 (2,866)	1,950 (4,299)	2,600 (5,732)	3,250 (7,165)	3,900 (8,598)	
Operating Weight	kg (lb)	693 (1,528)	1,386 (3,056)	2,079 (4,583)	2,772 (6,111)	3,465 (7,639)	4,158 (9,167)	
Refrigerant	Type	R410A						
	Charge	kg (lb)	8.7 (19)	17.4 (38)	26.1 (58)	34.8 (77)	43.5 (96)	52.2 (115)

Arbitrary combination up to 16 modules

- Notes:
- Unit dimension is taken assuming units is stacked front facing the back and with installation clearance
  - Nominal cooling capacity are based on the conditions below:

Criteria		Cooling
Evaporator	Leaving Water Temperature	7°C
	Nominal Flow Rate	0.172 m <sup>3</sup> /h.kW
Condenser	Entering Water Temperature	30°C
	Nominal Flow Rate	0.215 m <sup>3</sup> /h.kW

- Nominal water flow rate and pressure drop is based on series installation method.
- All specifications are subjected to change by the manufacturer without prior notice.

## A5MWC 40BR - A5MWC 240BR (FBAE-Standard Efficiency)

▼ SPECIFICATIONS

Model		A5MWC 40BR	A5MWC 80BR	A5MWC 120BR	A5MWC 160BR	A5MWC 200BR	A5MWC 240BR	
Nominal Cooling Capacity	BTU/h	477,700	955,400	1,433,100	1,910,800	2,388,500	2,866,200	
	kW	140.00	280.00	420.00	560.00	700.00	840.00	
Nominal Total Input Power	kW	31.50	63.00	94.50	126.00	157.50	189.00	
Nominal Running Current	A	59.7	119.4	179.1	238.8	298.5	358.2	
EER	BTU/h/W	15.17						
	W/W	4.44						
Power Source	V/Ph/Hz	380 - 415 / 3 / 50						
Refrigerant Control		EXV						
Sound Pressure Level	dBA	66	69	70.8	72	73	73.8	
Nominal Water Flow Rate	Evaporator	m <sup>3</sup> /h	24.1	48.2	72.3	96.4	120.5	144.6
	Condenser	m <sup>3</sup> /h	30.1	60.2	90.3	120.4	150.5	180.6
Nominal Water Pressure Drop	Evaporator	kPa	45	90	135	180	225	270
	Condenser	kPa	68	136	204	272	340	408
Pipe	Type	R (EXTERNAL TAPER)						
	Size	mm (in)	63.5 (2 - 1/2)					
Unit Dimension	Height	mm (in)	1,600 (63)					
	Width	mm (in)	1,800 (71)					
	Depth	mm (in)	650 (26)	1,750 (69)	2,850 (112)	3,950 (156)	5,050 (199)	6,150 (242)
Packing Dimension (Individual)	Height	mm (in)	1,750 (69)					
	Width	Height	1,915 (75)					
	Depth	mm (in)	715 (28)					
Net Weight	kg (lb)	745 (1,642)	1,490 (3,285)	2,235 (4,927)	2,980 (6,570)	3,725 (8,212)	4,470 (9,855)	
Gross Weight	kg (lb)	765 (1,687)	1,530 (3,373)	2,295 (5,060)	3,060 (6,746)	3,825 (8,433)	4,590 (10,119)	
Operating Weight	kg (lb)	820 (1,808)	1,640 (3,616)	2,460 (5,423)	3,280 (7,231)	4,100 (9,039)	4,920 (10,847)	
Refrigerant	Type	R410A						
	Charge	kg (lb)	11.6 (26)	23.2 (51)	34.8 (77)	46.4 (102)	58 (128)	69.6 (153)

Arbitrary combination up to 16 modules

- Notes:
- Unit dimension is taken assuming units is stacked front facing the back and with installation clearance
  - Nominal cooling capacity are based on the conditions below:

Criteria		Cooling
Evaporator	Leaving Water Temperature	7°C
	Nominal Flow Rate	0.172 m <sup>3</sup> /h.kW
Condenser	Entering Water Temperature	30°C
	Nominal Flow Rate	0.215 m <sup>3</sup> /h.kW

- Nominal water flow rate and pressure drop is based on series installation method.
- All specifications are subjected to change by the manufacturer without prior notice.

## A5MWC 30BR - A5MWC 180BR (FAAE-High Efficiency)

▼ SPECIFICATIONS

Model		A5MWC 30BR	A5MWC 60BR	A5MWC 90BR	A5MWC 120BR	A5MWC 150BR	A5MWC 180BR	
Nominal Cooling Capacity	BTU/h	375,300	750,600	1,125,900	1,501,200	1,876,500	2,251,800	
	kW	110.00	220.00	330.00	440.00	550.00	660.00	
Nominal Total Input Power	kW	23.90	47.80	71.70	95.60	119.50	143.40	
Nominal Running Current	A	43.5	87	130.5	174	217.5	261	
EER	BTU/h/W	15.7						
	W/W	4.60						
Power Source	V/Ph/Hz	380-415 / 3 / 50						
Refrigerant Control		EXV						
Sound Pressure Level	dBA	62	65	66.8	68	69	69.8	
Nominal Water Flow Rate	Evaporator	m <sup>3</sup> /h	18.9	37.8	56.7	75.6	94.5	113.4
	Condenser	m <sup>3</sup> /h	23.7	47.4	71.1	94.8	118.5	142.2
Nominal Water Pressure Drop	Evaporator	kPa	41	82	123	164	205	246
	Condenser	kPa	68	136	204	272	340	408
Pipe	Type	R (EXTERNAL TAPER)						
	Size	mm (in)	63.5 (2 - 1/2)					
Unit Dimension	Height	mm (in)	1,600 (63)					
	Width	mm (in)	1,800 (71)					
	Depth	mm (in)	650 (26)	1,750 (69)	2,850 (112)	3,950 (156)	5,050 (199)	6,150 (242)
Packing Dimension (Individual)	Height	mm (in)	1,750 (69)					
	Width	Height	1,915 (75)					
	Depth	mm (in)	715 (28)					
Net Weight	kg (lb)	655 (1,444)	1,310 (2,888)	1,965 (4,332)	2,620 (5,776)	3,275 (7,220)	3,930 (8,664)	
Gross Weight	kg (lb)	670 (1,477)	1,340 (2,954)	2,010 (4,431)	2,680 (5,908)	3,350 (7,385)	4,020 (8,863)	
Operating Weight	kg (lb)	720 (1,587)	1,440 (3,175)	2,160 (4,762)	2,880 (6,349)	3,600 (7,937)	4,320 (9,524)	
Refrigerant	Type	R410A						
	Charge	kg (lb)	10.2 (22)	20.4 (45)	30.6 (67)	40.8 (90)	51.0 (112)	61.2 (135)

Arbitrary combination up to 16 modules

- Notes:
- Unit dimension is taken assuming units is stacked front facing the back and with installation clearance
  - Nominal cooling capacity are based on the conditions below:

Criteria		Cooling
Evaporator	Leaving Water Temperature	7°C
	Nominal Flow Rate	0.172 m <sup>3</sup> /h.kW
Condenser	Entering Water Temperature	30°C
	Nominal Flow Rate	0.215 m <sup>3</sup> /h.kW

- Nominal water flow rate and pressure drop is based on series installation method.
- All specifications are subjected to change by the manufacturer without prior notice.



## A5MWC 40BR - A5MWC 240BR (FAAE-High Efficiency)

▼ SPECIFICATIONS

Model		A5MWC 40BR	A5MWC 80BR	A5MWC 120BR	A5MWC 160BR	A5MWC 200BR	A5MWC 240BR	
Nominal Cooling Capacity	BTU/h	494,700	989,400	1,484,100	1,978,800	2,473,500	2,968,200	
	kW	145.00	290.00	435.00	580.00	725.00	870.00	
Nominal Total Input Power	kW	31.10	62.20	93.30	124.40	155.50	186.60	
Nominal Running Current	A	56.7	113.4	170.1	226.8	283.5	340.2	
EER	BTU/h/W	15.91						
	W/W	4.66						
Power Source	V/Ph/Hz	380-415 / 3 / 50						
Refrigerant Control		EXV						
Sound Pressure Level	dBA	66	69	70.8	72	73	73.8	
Nominal Water Flow Rate	Evaporator	m³/h	24.9	49.8	74.7	99.6	199.2	398.4
	Condenser	m³/h	31.2	62.4	93.6	124.8	249.6	499.2
Nominal Water Pressure Drop	Evaporator	kPa	48	96	144	192	240	288
	Condenser	kPa	45	90	135	180	225	270
Pipe	Type	R (EXTERNAL TAPER)						
	Size	mm (in)	63.5 (2 - 1/2)					
Unit Dimension	Height	mm (in)	1,600 (63)					
	Width	mm (in)	1,800 (71)					
	Depth	mm (in)	650 (26)	1,750 (69)	2,850 (112)	3,950 (156)	5,050 (199)	6,150 (242)
Packing Dimension (Individual)	Height	mm (in)	1,750 (69)					
	Width	Height	1,915 (75)					
	Depth	mm (in)	715 (28)					
Net Weight	kg (lb)	804 (1,773)	1,608 (3,545)	2,412 (5,318)	3,216 (7,090)	4,020 (8,863)	4,824 (10,635)	
Gross Weight	kg (lb)	820 (1,808)	1,640 (3,616)	2,460 (5,423)	3,280 (7,231)	4,100 (9,039)	4,920 (10,847)	
Operating Weight	kg (lb)	885 (1,951)	1,770 (3,902)	2,655 (5,853)	3,540 (7,804)	4,425 (9,755)	5,310 (11,707)	
Refrigerant	Type	R410A						
	Charge	kg (lb)	14 (31)	28 (62)	42 (93)	56 (123)	70 (154)	84 (185)

Arbitrary combination up to 16 modules

Notes:

- Unit dimension is taken assuming units is stacked front facing the back and with installation clearance
- Nominal cooling capacity are based on the conditions below:

Criteria		Cooling
Evaporator	Leaving Water Temperature	7°C
	Nominal Flow Rate	0.172 m³/h.kW
Condenser	Entering Water Temperature	30°C
	Nominal Flow Rate	0.215 m³/h.kW

- Nominal water flow rate and pressure drop is based on series installation method.
- All specifications are subjected to change by the manufacturer without prior notice.

## Air Cooled Mini Chiller Series

Model						
		AMAC 30C A5AC 20/25/30CR A4AC 25/30C	AMAC 40/50/60C A5AC 40/50/55CR A4AC 40/50/60C	AMAC 80/100/120/150C A4AC 80/100/120/150C	A5MAC 30/40/50ER A5MAC 60/70/80ER	A5MAC 100/120/150ER
Cooling capacity	kW	8.8 4.6 - 7.3 6.7 - 7.9	11.6 - 15.8 10 - 13.2 11.3 - 14.7	24.9 - 40.4 23.4 - 40.2	9.4 - 24.9	28.8 - 40.0
Refrigerant		R22, R410A, R407C	R22, R410A, R407C	R22, R407C	R410A	R410A

## Features

### ✓ All in One Unit

The mini chiller is fully integrated and equipped with key hydronic components such as expansion tank, water tank, brazed plate heat exchanger and water circulating pump. The all in one concept will ease the job of installation.

### ✓ Protection

#### ■ Anti-Freeze Heater

The BPHE (Brazed Plate Heat Exchanger) has a strip heater around it to prevent it from water freezing.

#### ■ Anti-Freeze Sensor

Signal is sent from the anti-freeze sensor to cut out the compressor if the water temperature becomes too low to prevent BPHE from frosting.

#### ■ Water Pressure Differential Switch

This protection feature will ensure there is water flow in pipings when the chiller is in operation. Otherwise, the compressor will cut out immediately.

This unit is also equipped with a series of other protections like:

- High & low pressure switches
- Discharge temperature sensor
- Compressor, water pump & fan motor overload protector
- Pressure relief valve

### ✓ Power is Nothing Without Control

An user friendly and versatile is equipped with every mini chiller.

- Whole system configuration
- Unique parameter settings
- Operation status display
- Tracing fault record (quick troubleshooting solutions)
- 8-lines graphical LCD display
- Menu selection



\*Not compatible with A5MAC-ER Series

## AMAC 30C - AMAC 150C (R22)

SPECIFICATIONS

Model			AMAC 030C	AMAC 040C	AMAC 050C	AMAC 060C
Nominal Cooling Capacity	BTU/h		30,000	39,500	48,500	54,000
	kW		8.79	11.58	14.21	15.83
Nominal Total Input Power	kW		3.54	4.49	5.08	5.77
Nominal Running Current	A		16.41	9.67	9.75	12.01
EER	BTU/h/W		8.47	8.80	9.55	9.36
COP	W/W		2.48	2.58	2.80	2.74
Power Source	V/Ph/Hz		220 - 240 / 1 / 50		380 - 415 / 3 / 50	
Refrigerant Control			CAPILLARY TUBE			
Sound Pressure Level	dB(A)		58	59	59	59
Nominal Water Flow Rate	m <sup>3</sup> /h		1.51	1.90	2.40	2.73
Nominal Water Pressure Drop	kPa		86	114	90	92
Available Pressure Head	m		8.7	13.3	11.8	11.1
Pipe	Size	mm (in)	25.4 (1)			
Expansion Tank	Size	L	2	5	5	5
Water Tank	Size	L	22	40	40	40
Unit Dimension	Height	mm (in)	790 (31)	1,140 (45)		
	Width	mm (in)	1,160 (46)			
	Depth	mm (in)	460 (18)			
Packing Dimension	Height	mm (in)	920 (36)	1,551 (61)		
	Width	Height	1,270 (50)			
	Depth	mm (in)	570 (22)			
Net Weight	kg (lb)		126 (278)	188 (414)	189 (417)	196 (432)
Refrigerant	Type		R22			
	Charge	kg (lb)	1.88 (4.1)	2.8 (6.2)	3.15 (6.9)	3.3 (7.3)

Model			AMAC 080C	AMAC 100C	AMAC 120C	AMAC 150C
Nominal Cooling Capacity	BTU/h		85,000	95,000	116,000	138,000
	kW		24.91	27.84	34.00	40.45
Nominal Total Input Power	kW		8.87	10.59	11.37	14.22
Nominal Running Current	A		17.00	18.5	25.83	31.8
EER	BTU/h/W		9.58	8.97	10.20	9.70
COP	W/W		2.81	2.63	2.99	2.84
Power Source	V/Ph/Hz		380 - 415 / 3 / 50			
Refrigerant Control			TXV			
Sound Pressure Level	dB(A)		63	63	67	67
Nominal Water Flow Rate	m <sup>3</sup> /h		4.40	4.90	6.00	7.20
Nominal Water Pressure Drop	kPa		229	229	188	157
Available Pressure Head	m		17.9	16.8	22.3	20.0
Pipe	Size	mm (in)	31.8 (1 - 1/4)			
Expansion Tank	Size	L	8	8	8	8
Water Tank	Size	L	-	-	-	-
Unit Dimension	Height	mm (in)	1,245 (49)			
	Width	mm (in)	1,500 (59)		1,800 (71)	
	Depth	mm (in)	900 (35)		1,150 (45)	
Packing Dimension	Height	mm (in)	1,452 (57)			
	Width	Height	1,732 (68)		2,032 (80)	
	Depth	mm (in)	1,032 (41)		1,282 (50)	
Net Weight	kg (lb)		340 (750)	480 (1,058)		560 (1,235)
Refrigerant	Type		R22			
	Charge	kg (lb)	3.9 x 2 (8.6 x 2)	4.6 x 2 (10.1 x 2)	6.0 x 2 (13.2 x 2)	7.1 x 2 (15.7)

## Notes:

- All units are being tested and comply to ISO 5151 (Non - Ducted) or ISO 13253 (Ducted Unit).
- Nominal cooling capacity are based on the conditions below:

Mode	Cooling	
Evaporator	Entering	12°C
	Leaving	7°C
Condenser	Ambient	35°C DB / 24° C WB

- All specifications are subjected to change by the manufacturer without prior notice.

**A4AC 25C - A4AC 60C (R407c)**

▼ SPECIFICATIONS

Model			A4AC 025C	A4AC 030C	A4AC 040C	A4AC 050C	A4AC 060C
Nominal Cooling Capacity	BTU/h		23,000	26,900	38,500	47,500	50,000
	kW		6.74	7.88	11.28	13.92	14.65
Nominal Total Input Power	kW		2.95	3.77	4.68	5.43	6.04
Nominal Running Current	A		13.30	17.41	9.62	10.20	11.28
EER	BTU/h/W		7.80	7.14	8.23	8.75	8.28
COP	W/W		2.28	2.09	2.41	2.56	2.43
Power Source	V/Ph/Hz		220 - 240 / 1 / 50			380 - 415 / 3 / 50	
Refrigerant Control			CAPILLARY TUBE				
Sound Pressure Level	dBA		57	58	59	59	60
Nominal Water Flow Rate	m³/h		1.11	1.36	1.9	2.3	2.5
Nominal Water Pressure Drop	kPa		94	93	117	93	110
Available Pressure Head	m		4.9	6.0	8.4	10.1	11.0
Pipe	Size	mm (in)	25.4 (1)				
Expansion Tank	Size	L	2	2	5	5	5
Water Tank	Size	L	22	22	40	40	40
Unit Dimension	Height	mm (in)	790 (31.1)			1,140 (45)	
	Width	mm (in)	1,160 (46)				
	Depth	mm (in)	460 (18)				
Packing Dimension	Height	mm (in)	920 (36)			1,551 (61)	
	Width	Height	1,270 (50)				
	Depth	mm (in)	570 (22)				
Net Weight	kg (lb)		123 (271)	126 (278)	188 (414)	189 (417)	196 (432)
Refrigerant	Type		R407c				
	Charge	kg (lb)	1.72 (3.8)	1.63 (3.6)	3 (6.6)	3.3 (7.3)	3.2 (7.1)

Model			A4AC 080C	A4AC 100C	A4AC 120C	A4AC 150C
Nominal Cooling Capacity	BTU/h		80,000	90,000	115,000	137,000
	kW		23.45	26.38	33.70	40.15
Nominal Total Input Power	kW		9.43	11.21	12.17	14.97
Nominal Running Current	A		18.00	19.22	26.50	33.00
EER	BTU/h/W		8.48	8.03	9.45	9.15
COP	W/W		2.49	2.35	2.77	2.68
Power Source	V/Ph/Hz		380 - 415 / 3 / 50			
Refrigerant Control			TXV			
Sound Pressure Level	dBA		63	63	67	67
Nominal Water Flow Rate	m³/h		4.1	4.5	6.0	7.2
Nominal Water Pressure Drop	kPa		229	229	188	157
Available Pressure Head	m		18.1	19.8	26.4	31.7
Pipe	Size	mm (in)	31.8 (1 - 1/4)			
Expansion Tank	Size	L	8	8	8	8
Water Tank	Size	L	-			
Unit Dimension	Height	mm (in)	1,245 (49)			
	Width	mm (in)	1,500 (59)		1,800 (71)	
	Depth	mm (in)	900 (35)		1,150 (45)	
Packing Dimension	Height	mm (in)	1,452 (57)			
	Width	Height	1,732 (68)		2,032 (80)	
	Depth	mm (in)	1,032 (41)		1,282 (50)	
Net Weight	kg (lb)		340 (750)		480 (1,058)	560 (1,235)
Refrigerant	Type		R407c			
	Charge	kg (lb)	3.9 x 2 (8.6 x 2)	3.8 x 2 (8.4 x 2)	5.6 x 2 (12.3)	6.0 x 2 (13.2 x 2)

- Notes:  
 1. All units are being tested and comply to ISO 5151 (Non - Ducted) or ISO 13253 (Ducted Unit).  
 2. Nominal cooling capacity are based on the conditions below:

Mode	Cooling	
Evaporator	Entering	12°C
	Leaving	7°C
Condenser	Ambient	35°C DB / 24° C WB

3. All specifications are subjected to change by the manufacturer without prior notice.

## A5AC 20CR - A5AC 55CR (R410A)

▼ SPECIFICATIONS

Model			A5AC 020CR	A5AC 025CR	A5AC 030CR	A5AC 040CR	A5AC 050CR	A5AC 055CR
Nominal Cooling Capacity	BTU/h		15,700	21,000	24,800	34,100	41,600	45,000
	kW		4.60	6.15	7.27	10.00	12.20	13.20
Nominal Total Input Power	kW		2.62	2.76	3.83	5.00	5.31	5.49
Nominal Running Current	A		11.76	12.7	16.68	7.44	7.9	8.18
EER	BTU/h/W		5.99	7.61	6.48	6.82	7.83	8.20
COP	W/W		1.76	2.23	1.90	2.00	2.30	2.40
Power Source	V/Ph/Hz		220 - 240 / 1 / 50			380 - 415 / 3 / 50		
Refrigerant Control			CAPILLARY TUBE			CAPILLARY TUBE & TXV		
Sound Pressure Level	dBA		58	59	57	59	59	61
Nominal Water Flow Rate	m³/h		0.86	1	1.5	1.8	2.15	2.7
Nominal Water Pressure Drop	kPa		90	98	93	90	74	70
Available Pressure Head	m		8.9	10.1	8.7	13.7	13.0	11.1
Pipe	Size	mm (in)	25.4 (1)					
Expansion Tank	Size	L	3	3	5	5	5	5
Water Tank	Size	L	22	22	22	22	22	22
Unit Dimension	Height	mm (in)	790 (31)			1,140 (45)		
	Width	mm (in)	1,050 (41)			1,060 (42)		
	Depth	mm (in)	460 (18)					
Packing Dimension	Height	mm (in)	950 (37)			1,566 (62)		
	Width	Height				1,204 (47)		
	Depth	mm (in)	574 (23)					
Net Weight	kg (lb)	128 (282)			195 (430)			
Refrigerant	Type		R410A					
	Charge	kg (lb)	1.2 (2.6)	1.725 (3.8)	2.2 (2.9)	4.3 (9.5)	4.2 (9.3)	4.3 (9.5)

Notes:

1. All units are being tested and comply to ISO 5151 (Non - Ducted) or ISO 13253 (Ducted Unit).
2. Nominal cooling capacity are based on the conditions below:

Mode	Cooling	
Evaporator	Entering	12°C
	Leaving	7°C
Condenser	Ambient	35°C DB / 24° C WB

3. All specifications are subjected to change by the manufacturer without prior notice.

## A5MAC 30ER - A5MAC 150ER (R410A) - Inverter Series

▼ SPECIFICATIONS

Model		A5MAC 030ER	A5MAC 040ER	A5MAC 050ER	A5MAC 060ER	
Nominal Cooling Capacity	BTU/h	32,100	38,900	49,800	57,300	
	kW	9.40	11.40	14.60	16.80	
Nominal Total Input Power	kW	3.00	3.90	4.60	5.70	
Nominal Running Current	A	13.8	18	21.0	26.4	
EER	BTU/h/W	10.70	9.97	10.83	10.05	
COP	W/W	3.13	2.92	3.17	2.95	
IPLV*		4.21	4.23	4.16	4.13	
Power Source	V/Ph/Hz	220 - 240 / 1 / 50				
Refrigerant Control		EXV				
Sound Pressure Level	dBA	56/53/46	56/53/46	58/55/48	58/55/48	
Nominal Water Flow Rate	m³/h	1.62	1.96	2.51	2.89	
Nominal Water Pressure Drop (Including Strainer)	kPa	17	19	27	27	
Available Pressure Head	m	15	14	18	22	
Pipe	Type	RC (INTERNAL TAPER)				
	Size	25.4 (1)				
Expansion Tank	Size	L	3	3	5	5
Unit Dimension	Height	mm (in)	1,010 (40)		1,362 (54)	
	Width	mm (in)	950 (37)		995 (39)	
	Depth	mm (in)	397 (16)		395 (16)	
Packing Dimension	Height	mm (in)	1,175 (46)		1,530 (60)	
	Width	mm (in)	1,010 (40)		1,086 (43)	
	Depth	mm (in)	498 (20)		512 (20)	
Net Weight	kg (lb)	109 (240)	110 (243)	146 (322)	148 (326)	
Refrigerant	Type	R410A				
	Charge	kg (lb)	2.9 (6.4)	3 (6.6)	4 (8.8)	

Model		A5MAC 070ER	A5MAC 080ER	A5MAC 100ER	A5MAC 120ER	A5MAC 150ER	
Nominal Cooling Capacity	BTU/h	67,600	85,000	98,300	114,300	136,500	
	kW	19.80	24.90	28.80	33.50	40.00	
Nominal Total Input Power	kW	6.70	8.60	9.50	10.40	13.90	
Nominal Running Current	A	10.3	13.2	15.2	16.6	22.3	
EER	BTU/h/W	10.09	9.88	10.35	10.99	9.82	
COP	W/W	2.96	2.90	3.03	3.22	2.88	
IPLV*		4.15	4.23	4.90	4.71	4.45	
Power Source	V/Ph/Hz	380 - 415 / 3 / 50					
Refrigerant Control		EXV					
Sound Pressure Level	dBA	59/54/52	60/56/52	63	64	65	
Nominal Water Flow Rate	m³/h	3.41	4.28	4.95	5.76	6.88	
Nominal Water Pressure Drop (Including Strainer)	kPa	34	40	27	32	65	
Available Pressure Head	m	24	22	25	22	18	
Pipe	Type	RC (INTERNAL TAPER)		G (EXTERNAL AND INTERNAL PARALLEL)			
	Size	mm (in)		31.8 (1 - 1/4)			
Expansion Tank	Size	L	5	5	8	8	8
Unit Dimension	Height	mm (in)	1,362 (54)		1,780 (70)		
	Width	mm (in)	995 (39)		990 (39)	1,350 (53)	
	Depth	mm (in)	395 (16)		844 (33)		
Packing Dimension	Height	mm (in)	1,530 (60)		1,970 (78)		
	Width	mm (in)	1,086 (43)		1,030 (41)	1,440 (57)	
	Depth	mm (in)	512 (20)		890 (35)		
Net Weight	kg (lb)	158 (348)	165 (364)	228 (503)	250 (551)	280 (617)	
Refrigerant	Type	R410A					
	Charge	kg (lb)	5.2 (11.5)	8 (17.6)	8.5 (18.7)	9.1 (20.1)	

Notes:

- Unit dimension is taken assuming units is stacked front facing the back and with installation clearance.
- Unit have built in water pump and expansion tank. However, strainer, safety valve, water filling valve and wired controller need to be install on site.
- Nominal cooling capacity are based on the conditions below:

Mode		Cooling
Evaporator	Leaving Water Temperature	7°C
Condenser	Ambient Temperature	35°C DB / 24° C WB
Nominal Flow Rate		0.172 m³/h.kW

4. All specifications are subjected to change by the manufacturer without prior notice.

## Chilled Water Fan Coil Units Line-up



A wide range of fan coil units ranging from residential use to industrial application is available for different needs. Each model comes with their own unique features and advantages.

The available chilled water fan coil units are:

- Wall Mounted JW
- Ceiling Cassette CW/ EW Series
- Ceiling Mounted EW Series
- Ducted Blower BW Series
- Ducted Blower FW Series
- Ceiling Concealed VW Series
- Ceiling Concealed CW Series
- Ceiling Concealed GW Series
- Ceiling Concealed FWD Series
- Double Skin Ceiling Concealed CW Series

### 🔴 Power is Nothing Without Control

#### SLM9

The Chilled Water Fan Coil Unit is supplied with SLM9 micro computer thermostat as standard wired controller. This wired controller comes with a LCD screen with every information of the unit easily visible. It is adapted to fan coil and electromechanical valve's control.

\*Applicable for certain model



**AWM07JW - AWM 25JW (Wall Mounted)**

▼ SPECIFICATIONS

Model		AWM07JW	AWM10JW	AWM 15JW	AWM 20JW	AWM 25JW	
Nominal Cooling Capacity	BTU/h	8,300	9,200	11,300	15,500	18,000	
	kW	2.43	2.7	3.31	4.54	5.28	
Nominal Total Input Power	kW	0.031	0.032	0.042	0.053	0.072	
Nominal Operating Current	A	0.19	0.2	0.21	0.29	0.34	
Power Source	V/Ph/Hz	220 ~ 240 / 1 / 50					
Control	Air Discharge	AUTOMATIC LOUVER (UP & DOWN)					
	Operation	WIRED (OPTIONAL) OR WIRELESS CONTROLLER					
Air Flow Rate	High	l/s (CFM)	123 (260)	132 (280)	175 (370)	241 (510)	293 (620)
	Medium	l/s (CFM)	109 (230)	118 (250)	151 (320)	212 (450)	245 (520)
	Low	l/s (CFM)	94 (200)	104 (220)	123 (260)	184 (390)	217 (460)
	Quiet	l/s (CFM)	85 (180)	90 (190)	113 (240)	170 (360)	208 (440)
Nominal Water Flow Rate	USGPM	1.85	2.03	2.51	3.43	4.01	
	liters/min	7.00	7.68	9.50	13.00	15.18	
Head Loss (Cooling)	kPa	34	24	31	30	36	
Maximum Working Pressure (Cooling)	kPa	1608					
Surface Air Velocity	m/s	0.68	0.74	0.97	0.83	1.01	
Sound Pressure Level (H/M/L/Q)	dBA	34 / 29 / 25 / 24	35 / 30 / 25 / 24	42 / 39 / 32 / 29	42 / 38 / 34 / 32	46 / 42 / 39 / 37	
Unit Dimension	Height	mm (in)	288 (11)			310 (12)	
	Width	mm (in)	800 (31)			1,065 (42)	
	Depth	mm (in)	206 (8)			224 (9)	
Packing Dimension	Height	mm (in)	344 (14)			386 (15)	
	Width	mm (in)	874 (34)			1,136 (45)	
	Depth	mm (in)	274 (11)			314 (12)	
Unit Weight	kg (lb)	9 (20)			14 (31)		
Condensate Drain Pipe Size	mm (in)	19.05 (3/4)					
Pipe Connection	Type	BSP FEMALE THREAD ADAPTOR					
	Size	mm (in)	12.7 (1/2)				
Filter	Type	WASHABLE SARANET FILTER					
	Quantity	pcs	2				
Casing	Colour	WHITE					

Notes:

1. Nominal cooling capacity are based on the conditions below:

Mode	Cooling
Entering Air Temperature	27°C DB / 19°C WB
Entering Water Temperature	7°C
Leaving Water Temperature	12°C



2. Sound measurement position is 1m in front and 0.8m below the vertical line of the unit.  
 3. All specifications are subjected to change by the manufacturer without prior notice.



## ACK 10CW - ACK 20CW (Ceiling Cassette C Series)

▼ SPECIFICATIONS

Model			ACK 10CW	ACK 15CW	ACK 20CW
Nominal Cooling Capacity	BTU/h		8,500	14,000	15,500
	kW		2.49	4.1	4.54
Nominal Total Input Power	kW		0.063	0.064	0.079
Nominal Operating Current	A		0.28	0.28	0.35
Power Source	V/Ph/Hz		220 ~ 240 / 1 / 50		
Control	Air Discharge		AUTOMATIC LOUVER (UP & DOWN)		
	Operation		WIRED (OPTIONAL) OR WIRELESS CONTROLLER		
Air Flow Rate	High	l/s (CFM)	179 (380)	189 (400)	208 (440)
	Medium	l/s (CFM)	137 (290)	146 (310)	156 (330)
	Low	l/s (CFM)	109 (230)	104 (220)	132 (280)
Nominal Water Flow Rate	USGPM		2.03	3.43	3.57
	liters/min		7.68	12.98	13.51
Head Loss (Cooling)	kPa		19.3	26.9	28.8
Maximum Working Pressure (Cooling)	kPa		1608		
Surface Air Velocity	m/s		0.74	0.74	0.82
Sound Pressure Level (H/M/L)	dBA		42 / 35 / 29	45 / 38 / 30	48 / 40 / 36
Unit Dimension	Height	mm (in)	250 (9.84)		
	Width	mm (in)	570 (22.44)		
	Depth	mm (in)	570 (22.44)		
Unit Dimension - With Panel	Height	mm (in)	295 (11.61)		
	Width	mm (in)	640 (25.2)		
	Depth	mm(in)	640 (25.2)		
Packing Dimension	Height	mm (in)	316 (12.44)		
	Width	mm (in)	630 (24.8)		
	Depth	mm (in)	630 (24.8)		
Panel Packing Dimension	Height	mm (in)	126 (4.96)		
	Width	mm (in)	700 (27.56)		
	Depth	mm (in)	726 (28.58)		
Unit + Panel Weight	kg (lb)		15 + 3 (33 + 7)	17 + 3 (37 + 7)	17 + 3 (37 + 7)
Condensate Drain Pipe Size	mm (in)		19.05 (3/4)		
Pipe Connection	Type		BSP FEMALE THREAD ADAPTOR		
	Size	mm (in)	19.05 (3/4)		
Filter	Type		WASHABLE SARANET FILTER		
	Quantity	pcs	1		
Casing	Colour		WHITE		

Notes:

1. Nominal cooling capacity are based on the conditions below:

Mode	Cooling
Entering Air Temperature	27°C DB / 19°C WB
Entering Water Temperature	7°C
Leaving Water Temperature	12°C

2. Sound measurement position is 1.4m below the face center of the air return of the unit.  
 3. All specifications are subjected to change by the manufacturer without prior notice.



## ACK 20EW - ACK 50EW (Ceiling Cassette E Series)

▼ SPECIFICATIONS

Model		ACK 20EW	ACK 25EW	ACK 30EW	ACK 40EW	ACK 50EW	
Nominal Cooling Capacity	BTU/h	21,000	25,000	30,000	38,000	43,000	
	kW	6.15	7.33	8.79	11.14	12.6	
Nominal Total Input Power	kW	0.095	0.126	0.167	0.186	0.227	
Nominal Operating Current	A	0.44	0.55	0.74	0.85	1.03	
Power Source	V/Ph/Hz	220 ~ 240 / 1 / 50					
Control	Air Discharge	4 WAY AUTOMATIC LOUVER (UP & DOWN)					
	Operation	WIRED (OPTIONAL) OR WIRELESS CONTROLLER					
Air Flow Rate	High	l/s (CFM)	354 (750)	406 (860)	420 (890)	472 (1,000)	538 (1,140)
	Medium	l/s (CFM)	293 (620)	330 (700)	340 (720)	396 (840)	472 (1,000)
	Low	l/s (CFM)	227 (480)	255 (540)	269 (570)	321 (680)	396 (840)
	Quiet	l/s (CFM)	151 (320)	179 (380)	198 (420)	255 (540)	330 (700)
Nominal Water Flow Rate	USGPM	4.71	5.59	6.69	8.45	9.6	
	liters/min	17.83	21.17	25.29	31.94	36.29	
Head Loss (Cooling)	kPa	20	37	22	44	53	
Maximum Working Pressure (Cooling)	kPa	1608					
Surface Air Velocity	m/s	0.92	1.05	1.13	1.02	1.17	
Sound Pressure Level (H/M/L/Q)	dBA	42 / 38 / 32 / 23	46 / 42 / 35 / 27	48 / 43 / 38 / 30	50 / 47 / 43 / 33	52 / 49 / 45 / 39	
Unit Dimension	Height	mm (in)	265 (10.43)			300 (11.81)	
	Width	mm (in)	820 (32.28)				
	Depth	mm (in)	820 (32.28)				
Unit Dimension - With Panel	Height	mm (in)	340 (13.39)			375 (14.76)	
	Width	mm (in)	990 (38.98)				
	Depth	mm (in)	990 (38.98)				
Packing Dimension	Height	mm (in)	341 (13.43)			376 (14.80)	
	Width	mm (in)	916 (36.06)				
	Depth	mm (in)	916 (36.06)				
Panel Packing Dimension	Height	mm (in)	125 (4.92)				
	Width	mm (in)	1,020 (40.16)				
	Depth	mm (in)	1,020 (40.16)				
Unit + Panel Weight	kg (lb)	26 + 4 (57 + 9)		28 + 4 (62 + 9)	32 + 4 (71 + 9)		
Condensate Drain Pipe Size	mm (in)	19.05 (3/4)					
Pipe Connection	Type	BSP FEMALE THREAD ADAPTOR					
	Size	mm (in)	19.05 (3/4)				
Filter	Type	WASHABLE SARANET FILTER					
	Quantity	pcs	1				
Casing	Colour	WHITE					

Notes:

1. Nominal cooling capacity are based on the conditions below:

Mode	Cooling
Entering Air Temperature	27°C DB / 19°C WB
Entering Water Temperature	7°C
Leaving Water Temperature	12°C



2. Sound measurement position is 1.4m and up to 1.5m below the face center of the air return of the unit.  
 3. All specifications are subjected to change by the manufacturer without prior notice.

## ACM 15EW - ACM 50EW (Ceiling Mounted E Series)

▼ SPECIFICATIONS

Model		ACM 15EW	ACM 20EW	ACM 25EW	ACM 30EW	ACM 40EW	ACM 50EW	
Nominal Cooling Capacity	BTU/h	15,500	20,300	21,000	25,000	34,000	47,000	
	kW	4.54	5.95	6.15	7.33	9.96	13.77	
Nominal Total Input Power	kW	0.086	0.135	0.16	0.148	0.197	0.225	
Nominal Operating Current	A	0.38	0.67	0.79	0.65	0.87	0.99	
Power Source	V/Ph/Hz	220 ~ 240 / 1 / 50						
Control	Air Discharge	AUTOMATIC LOUVER (UP & DOWN)						
	Operation	WIRED (OPTIONAL) OR WIRELESS CONTROLLER						
Air Flow Rate	High	l/s (CFM)	245 (520)	274 (580)	302 (640)	396 (840)	529 (1,120)	580 (1,230)
	Medium	l/s (CFM)	217 (460)	250 (530)	264 (560)	354 (750)	463 (980)	514 (1,090)
	Low	l/s (CFM)	192 (406)	231 (490)	217 (460)	311 (660)	406 (860)	467 (990)
Nominal Water Flow Rate	USGPM	3.43	4.49	4.67	5.77	7.71	10.17	
	liters/min	12.98	17	17.68	21.85	29.19	38.53	
Head Loss (Cooling)	kPa	27	48	57	36	50	67	
Maximum Working Pressure (Cooling)	kPa	1,608						
Surface Air Velocity	m/s	0.91	1.02	1.12	1.5	1.63	1.5	
Sound Pressure Level (H/M/L)	dBA	45 / 38 / 36	48 / 43 / 39	49 / 46 / 41	48 / 47 / 44	52 / 47 / 46	52 / 50 / 49	
Unit Dimension	Height	mm (in)	212 (8)			259 (10)		
	Width	mm (in)	1,090 (43)		1,320 (52)	1,538 (61)	1,786 (70)	
	Depth	mm (in)	630 (25)			635 (25)		
Packing Dimension	Height	mm (in)	297 (12)			348 (14)		
	Width	mm (in)	1,197 (47)		1,393 (55)	1,612 (63)	1,860 (73)	
	Depth	mm (in)	740 (29)			734 (29)		
Unit Weight	kg (lb)	27 (60)		41 (90)	46 (101)	53 (117)		
Condensate Drain Pipe Size	mm (in)	19.05 (3/4)						
Pipe Connection	Type	BSP FEMALE THREAD ADAPTOR						
	Size	mm (in)	12.7 (1/2)			19.05 (3/4)		
Filter	Type	WASHABLE SARANET FILTER						
	Quantity	pcs	2		3	3	4	
Casing	Colour	LIGHT GREY						

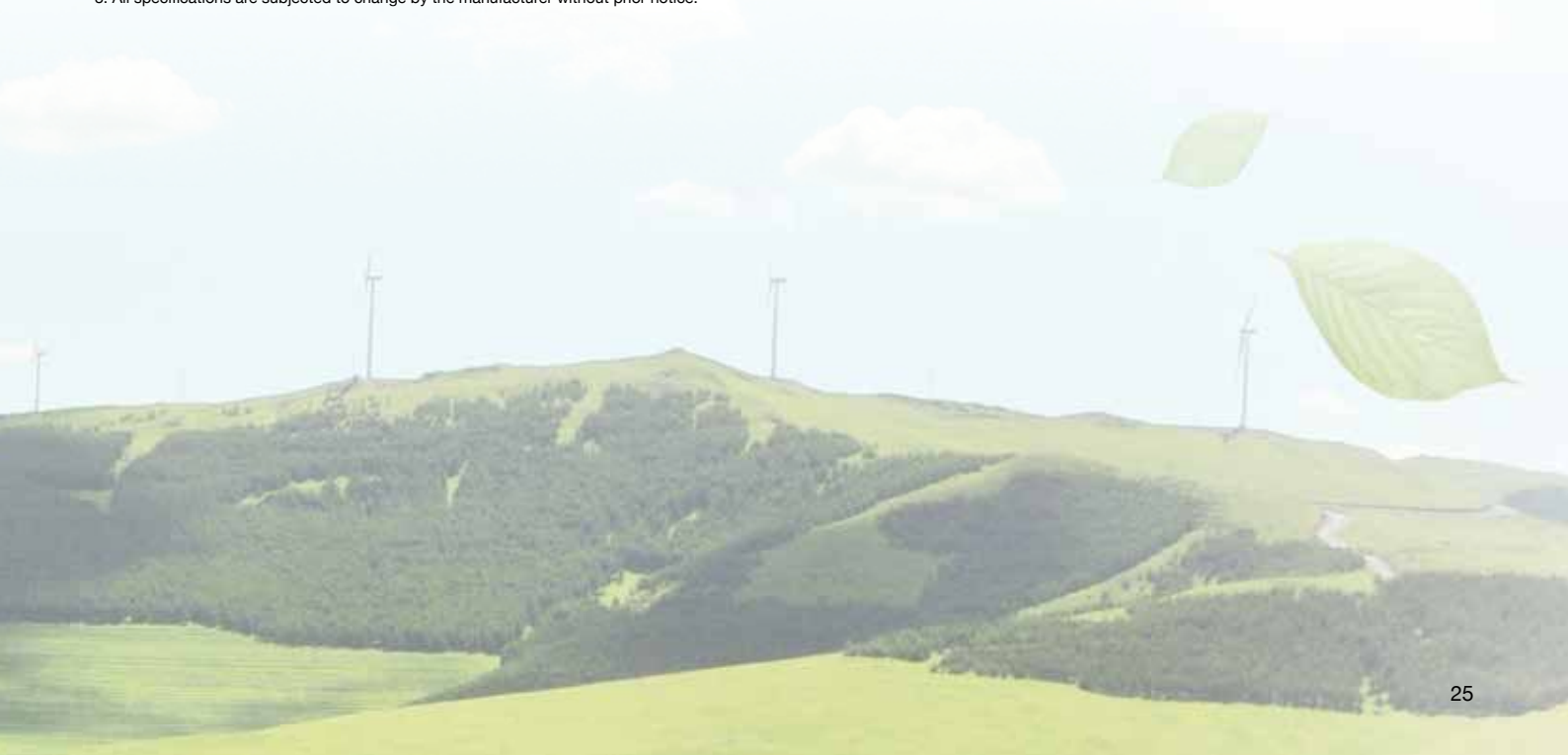
Notes:

1. Nominal cooling capacity are based on the conditions below:

Mode	Cooling
Entering Air Temperature	27°C DB / 19°C WB
Entering Water Temperature	7°C
Leaving Water Temperature	12°C



2. Sound measurement position is 1m in front of the unit and 0.8m up to 1m below the air discharge opening.  
 3. All specifications are subjected to change by the manufacturer without prior notice.



ACC 10CW - ACC 60CW (Ceiling Concealed)

▼ SPECIFICATIONS

Model		ACC 10CW	ACC 15CW	ACC 20CW	ACC 25CW	ACC 30CW	ACC 40CW	ACC 50CW	ACC 60CW	
Nominal Cooling Capacity (High)	BTU/h	9,900	11,600	18,000	22,500	24,800	37,000	44,700	51,800	
	kW	2.90	3.40	5.28	6.59	7.27	10.84	13.10	15.18	
Nominal Cooling Capacity (Medium)	BTU/h	9,800	11,500	17,600	21,000	23,300	35,800	43,600	50,500	
	kW	2.87	3.37	5.16	6.15	6.83	10.49	12.78	14.80	
Nominal Cooling Capacity (Low)	BTU/h	8,600	10,100	17,000	19,300	22,200	33,900	42,800	47,900	
	kW	2.52	2.96	4.98	5.66	6.51	9.94	12.54	14.04	
Nominal Total Input Power	kW	0.089	0.14	0.168	0.182	0.345	0.442	0.427	0.531	
Nominal Operating Current	A	0.4	0.65	0.77	0.86	1.5	1.93	1.86	2.32	
Power Source	V/Ph/Hz	220 ~ 240 / 1 / 50								
Control	Air Discharge	HORIZONTAL - DUCTED								
	Operation (Optional)	WIRED (WIRELESS)								
Air Flow Rate	High	l/s (CFM)	142 (300)	241 (510)	330 (700)	345 (730)	392 (830)	585 (1,240)	632 (1,340)	732 (1,550)
	Medium	l/s (CFM)	135 (285)	231 (490)	319 (675)	311 (660)	359 (760)	519 (1,100)	576 (1,220)	661 (1,400)
	Low	l/s (CFM)	123 (260)	189 (400)	302 (640)	274 (580)	335 (710)	481 (1,020)	562 (1,190)	614 (1,300)
External Static Pressure With Filter	Pa	49 / 44 / 36	49 / 42 / 28	49 / 45 / 41	49 / 43 / 30	167 / 128 / 88	128 / 88 / 39	157 / 137 / 108	157 / 137 / 98	
	in.wg	0.2 / 0.18 / 0.14	0.2 / 0.17 / 0.11	0.2 / 0.18 / 0.16	0.2 / 0.17 / 0.12	0.67 / 0.51 / 0.35	0.51 / 0.35 / 0.16	0.63 / 0.55 / 0.43	0.63 / 0.55 / 0.39	
Nominal Water Flow Rate	USGPM	2.2	2.6	4.05	5.06	5.55	8.28	10.04	11.62	
	liters/min	8.33	9.84	15.33	19.15	21.01	31.34	38.0	43.98	
Head Loss (Cooling)	kPa	10.5	24	20.1	32.4	14	23	38	51	
Maximum Working Pressure (Cooling)	kPa	1,608								
Surface Air Velocity	m/s	1.23	1.68	1.88	1.7	1.41	1.83	1.54	1.52	
Sound Pressure Level (H/M/L)	dBA	36 / 35 / 33	40 / 38 / 33	42 / 41 / 40	41 / 40 / 36	46 / 42 / 38	49 / 45 / 41	52 / 50 / 47	53 / 50 / 47	
Unit Dimension	Height	mm (in)	267 (11)				384 (15)			
	Width	mm (in)	702 (28)	842 (33)	1,002 (39)	1,137 (45)	917 (36)	1,003 (39)	1,287 (51)	1,487 (59)
	Depth	mm (in)	351 (14)				462 (18)			
Packing Dimension	Height	mm (in)	376 (15)				415 (16)			
	Width	mm (in)	951 (37)	1,091 (43)	1,251 (49)	1,386 (55)	1,126 (44)	1,245 (49)	1,497 (59)	1,701 (67)
	Depth	mm (in)	541 (21)				631 (25)			
Unit Weight	kg (lb)	18 (40)	22 (49)	24 (53)	26 (57)	42 (93)	44 (97)	50 (110)	56 (123)	
Condensate Drain Pipe Size	mm (in)	19.05 (3/4)								
Pipe Connection	Type	BSP FEMALE THREAD ADAPTOR								
	Size	mm (in)	19.05 (3/4)							
Filter	Type	WASHABLE SARANET FILTER								
	Quantity	pcs	1							
Casing	Colour	WITHOUT PAINT								

Notes:

1. Nominal cooling capacity are based on the conditions below:

Mode	Cooling
Entering Air Temperature	27°C DB / 19°C WB
Entering Water Temperature	7°C
Leaving Water Temperature	12°C



2. Sound measurement position is 1.5m below the centre of the unit with 2m length duct at the air discharge outlet and air return inlet.  
 3. All specifications are subjected to change by the manufacturer without prior notice.

## ACSC 10CW - ACSC 60CW (Double Skin Ceiling Concealed)

▼ SPECIFICATIONS

Model		ACSC 10CW	ACSC 15CW	ACSC 20CW	ACSC 25CW	ACSC 30CW	ACSC 40CW	ACSC 50CW	ACSC 60CW	
Nominal Cooling Capacity (High)	BTU/h	9,900	11,600	18,000	22,500	24,800	37,000	44,700	51,800	
	kW	2.90	3.40	5.28	6.59	7.27	10.84	13.10	15.18	
Nominal Cooling Capacity (Medium)	BTU/h	9,800	11,500	17,600	21,000	23,300	35,800	43,600	50,500	
	kW	2.87	3.37	5.16	6.15	6.83	10.49	12.78	14.80	
Nominal Cooling Capacity (Low)	BTU/h	8,600	10,100	17,000	19,300	22,200	33,900	42,800	47,900	
	kW	2.52	2.96	4.98	5.66	6.51	9.94	12.54	14.04	
Nominal Total Input Power	kW	0.089	0.14	0.168	0.182	0.345	0.442	0.427	0.531	
Nominal Operating Current	A	0.4	0.65	0.77	0.86	1.5	1.93	1.86	2.32	
Power Source	V/Ph/Hz	220 ~ 240 / 1 / 50								
Control	Air Discharge	HORIZONTAL - DUCTED								
	Operation (Optional)	WIRED (WIRELESS)								
Air Flow Rate	High	l/s (CFM)	142 (300)	241 (510)	330 (700)	345 (730)	392 (830)	585 (1,240)	632 (1,340)	732 (1,550)
	Medium	l/s (CFM)	135 (285)	231 (490)	319 (675)	311 (660)	359 (760)	519 (1,100)	576 (1,220)	661 (1,400)
	Low	l/s (CFM)	123 (260)	189 (400)	302 (640)	274 (580)	335 (710)	481 (1,020)	562 (1,190)	614 (1,300)
External Static Pressure With Filter	Pa	49 / 44 / 36	49 / 42 / 28	49 / 45 / 41	49 / 43 / 30	167 / 128 / 88	128 / 88 / 39	157 / 137 / 108	157 / 137 / 98	
	in.wg	0.2 / 0.18 / 0.14	0.2 / 0.17 / 0.11	0.2 / 0.18 / 0.16	0.2 / 0.17 / 0.12	0.67 / 0.51 / 0.35	0.51 / 0.35 / 0.16	0.63 / 0.55 / 0.43	0.63 / 0.55 / 0.39	
Nominal Water Flow Rate	USGPM	2.2	2.6	4.05	5.06	5.55	8.28	10.04	11.62	
	liters/min	8.33	9.84	15.33	19.15	21.01	31.34	38	43.98	
Head Loss (Cooling)	kPa	10.5	24	20.1	32.4	14	23	38	51	
Maximum Working Pressure (Cooling)	kPa	1,608								
Surface Air Velocity	m/s	1.23	1.68	1.88	1.7	1.41	1.83	1.54	1.52	
Sound Pressure Level (H/M/L)	dB(A)	33 / 32 / 30	37 / 35 / 30	40 / 38 / 37	40 / 38 / 35	45 / 41 / 37	48 / 44 / 40	50 / 48 / 45	52 / 49 / 45	
Unit Dimension	Height	mm (in)	330 (13)				480 (19)			
	Width	mm (in)	760 (30)	900 (35)	1,060 (42)	1,195 (47)	975 (38)	1,090 (43)	1,345 (53)	1,545 (61)
	Depth	mm (in)	510 (20)				620 (24)			
Packing Dimension	Height	mm (in)	454 (18)				604 (24)			
	Width	mm (in)	810 (32)	950 (37)	1,110 (44)	1,245 (49)	1,025 (40)	1,140 (45)	1,395 (55)	1,596 (63)
	Depth	mm (in)	674 (27)				784 (31)			
Unit Weight	kg (lb)	25 (55)	29 (64)	32 (71)	35 (77)	52 (115)	54 (119)	62 (137)	69 (152)	
Condensate Drain Pipe Size	mm (in)	19.05 (3/4)								
Pipe Connection	Type	BSP FEMALE THREAD ADAPTOR								
	Size	mm (in)	19.05 (3/4)							
Filter	Type	WASHABLE SARANET FILTER								
	Quantity	pcs	1							
Casing	Colour	WITHOUT PAINT								

Notes:

1. Nominal cooling capacity are based on the conditions below:

Mode	Cooling
Entering Air Temperature	27°C DB / 19°C WB
Entering Water Temperature	7°C
Leaving Water Temperature	12°C



2. Sound measurement position is 1.5m below the centre of the unit with 2m length duct at the air discharge outlet and air return inlet.  
 3. All specifications are subjected to change by the manufacturer without prior notice.

ACC 02GW - ACC 12GW (Ceiling Concealed - Low Static Pressure)

▼ SPECIFICATIONS

Model		ACC 02GW	ACC 03GW	ACC 04GW	ACC 06GW	ACC 08GW	ACC 10GW	ACC 12GW	
Nominal Cooling Capacity (High)	BTU/h	6,000	9,000	12,000	18,000	24,000	30,000	36,000	
	kW	1.76	2.64	3.52	5.28	7.03	8.79	10.55	
Nominal Cooling Capacity (Medium)	BTU/h	5,000	6,900	10,200	16,400	21,000	26,700	32,800	
	kW	1.47	2.02	2.99	4.81	6.15	7.83	9.61	
Nominal Cooling Capacity (Low)	BTU/h	4,400	5,200	7,000	13,700	17,000	22,100	29,100	
	kW	1.29	1.52	2.05	4.02	4.98	6.48	8.53	
Nominal Total Input Power	kW	0.053	0.061	0.081	0.116	0.159	0.202	0.241	
Nominal Operating Current	A	0.23	0.27	0.36	0.5	0.72	0.9	1.05	
Power Source	V/Ph/Hz	220 ~ 240 / 1 / 50							
Control	Air Discharge	DUCTED							
	Operation	WITHOUT CONTROLLER							
Air Flow Rate	High	l/s (CFM)	94 (200)	142 (300)	189 (400)	283 (600)	378 (800)	472 (1,000)	566 (1,200)
	Medium	l/s (CFM)	76 (160)	104 (220)	144 (305)	236 (500)	307 (650)	380 (805)	460 (975)
	Low	l/s (CFM)	61 (130)	71 (150)	94 (200)	182 (385)	219 (465)	283 (600)	382 (810)
External Static Pressure With Filter	Pa	30 / 19 / 12	30 / 16 / 7	30 / 18 / 7	30 / 21 / 13	30 / 19 / 10	30 / 18 / 11	30 / 20 / 13	
	in.wg	0.12 / 0.08 / 0.05	0.12 / 0.06 / 0.03	0.12 / 0.07 / 0.03	0.12 / 0.08 / 0.05	0.12 / 0.08 / 0.04	0.12 / 0.07 / 0.04	0.12 / 0.08 / 0.05	
Nominal Water Flow Rate	USGPM	1.32	2	2.66	3.99	5.33	6.66	7.99	
	liters/min	5	7.57	10.09	15.13	20.18	25.22	30.26	
Head Loss (Cooling)	kPa	8.5	20	25	34	38	42	38	
Maximum Working Pressure (Cooling)	kPa	1608							
Surface Air Velocity	m/s	1.26	1.17	1.56	1.99	1.69	2.11	2.05	
Sound Pressure Level (H/M/L)	dBA	31 / 26 / 20	32 / 25 / 20	35 / 29 / 21	38 / 35 / 30	39 / 34 / 26	41 / 37 / 31	42 / 39 / 35	
Unit Dimension	Height	mm (in)	251 (10)						
	Width	mm (in)	630 (25)	774 (30)		874 (34)	1,264 (50)		1,514 (60)
	Depth	mm (in)	461 (18)						
Packing Dimension	Height	mm (in)	595 (23)						
	Width	mm (in)	836 (33)	984 (39)		1,084 (43)	1,473 (58)		1,724 (68)
	Depth	mm (in)	284 (11)						
Unit Weight	kg (lb)	11 (24)	14.5 (32)	15 (33)	17.5 (39)	26 (57)	26 (57)	30 (66)	
Condensate Drain Pipe Size	mm (in)	19.05 (3/4)							
Pipe Connection	Type	BSP FEMALE THREAD ADAPTOR							
	Size	mm (in)	19.05 (3/4)						
Filter	Type	WASHABLE SARANET FILTER							
	Quantity	pcs	2						
Casing	Colour	WITHOUT PAINT							

Notes:

1. Nominal cooling capacity are based on the conditions below:

Mode	Cooling
Entering Air Temperature	27°C DB / 19°C WB
Entering Water Temperature	7°C
Leaving Water Temperature	12°C



2. Sound measurement position is 1.5m below the centre of the unit with 2m length duct at the air discharge outlet and 1m length of duct at the air return inlet.  
 3. All specifications are subjected to change by the manufacturer without prior notice.

## ACC 03GW - ACC 20GW (Ceiling Concealed - Medium Static Pressure)

▼ SPECIFICATIONS

Model		ACC 03GW	ACC 04GW	ACC 06GW	ACC 08GW	ACC 10GW	ACC 12GW	ACC 14GW	ACC 16GW	ACC 18GW	ACC 20GW		
Nominal Cooling Capacity (High)	BTU/h	9,000	12,000	18,000	24,000	30,000	36,000	42,000	48,000	54,000	60,000		
	kW	2.64	3.52	5.28	7.03	8.79	10.55	12.31	14.07	15.83	17.58		
Nominal Cooling Capacity (Medium)	BTU/h	6,900	10,200	16,400	21,000	26,700	32,800	36,700	41,200	47,200	52,700		
	kW	2.02	2.99	4.81	6.15	7.83	9.61	10.76	12.08	13.83	15.45		
Nominal Cooling Capacity (Low)	BTU/h	5,200	7,000	13,700	17,000	22,100	29,100	29,100	31,700	38,300	41,100		
	kW	1.52	2.05	4.02	4.98	6.48	8.53	8.53	9.29	11.23	12.05		
Nominal Total Input Power	kW	0.061	0.087	0.13	0.184	0.235	0.246	0.45	0.558	0.624	0.659		
Nominal Operating Current	A	0.27	0.38	0.58	0.81	1.03	1.1	1.96	2.43	2.72	2.87		
Power Source	V/Ph/Hz	220 ~ 240 / 1 / 50											
Control	Air Discharge	DUCTED											
	Operation	WITHOUT CONTROLLER											
Air Flow Rate	High	l/s (CFM)	142 (300)	189 (400)	283 (600)	378 (800)	472 (1,000)	566 (1,200)	661 (1,400)	755 (1,600)	850 (1,800)	944 (2,000)	
	Medium	l/s (CFM)	104 (220)	144 (305)	236 (500)	307 (650)	380 (805)	460 (975)	533 (1,130)	614 (1,300)	682 (1,445)	722 (1,530)	
	Low	l/s (CFM)	71 (150)	94 (200)	182 (385)	219 (465)	283 (600)	382 (810)	389 (825)	427 (905)	500 (1,060)	507 (1,075)	
External Static Pressure With Filter	Pa	50 / 32 / 15	50 / 32 / 15	50 / 35 / 20	50 / 33 / 17	50 / 33 / 18	50 / 33 / 23	75 / 48 / 24	75 / 48 / 24	75 / 48 / 25	75 / 45 / 22		
	in.wg	0.2 / 0.13 / 0.06	0.2 / 0.13 / 0.06	0.2 / 0.14 / 0.08	0.2 / 0.13 / 0.07	0.2 / 0.13 / 0.07	0.2 / 0.13 / 0.09	0.3 / 0.19 / 0.1	0.3 / 0.19 / 0.1	0.3 / 0.19 / 0.1	0.3 / 0.18 / 0.09		
Nominal Water Flow Rate	USGPM	2	2.66	3.99	5.33	6.66	7.99	9.32	10.65	11.98	13.31		
	liters/min	7.57	10.09	15.13	20.18	25.22	30.26	35.31	40.35	45.4	50.44		
Head Loss (Cooling)	kPa	20	25	34	38	42	38	31	27	33	32		
Maximum Working Pressure (Cooling)	kPa	1608											
Surface Air Velocity	m/s	1.17	1.56	1.99	1.69	2.11	2.05	2.43	2.41	2.71	2.65		
Sound Pressure Level (H/M/L)	dBA	35 / 29 / 20	37 / 31 / 22	41 / 37 / 31	43 / 37 / 30	44 / 40 / 33	44 / 40 / 37	47 / 43 / 35	48 / 44 / 37	49 / 45 / 39	50 / 46 / 38		
Unit Dimension	Height	mm (in)	251 (10)						363 (14)				
	Width	mm (in)	774 (30)		874 (34)		1,264 (50)		1,514 (60)		1,116 (44)	1,254 (49)	1,394 (55)
	Depth	mm (in)	461 (18)						660 (26)				
Packing Dimension	Height	mm (in)	595 (23)						760 (30)				
	Width	mm (in)	984 (39)		1,084 (43)		1,473 (58)		1,724 (68)		1,331 (52)	1,469 (58)	1,609 (63)
	Depth	mm (in)	284 (11)						395 (16)				
Unit Weight	kg (lb)	14.5 (32)	15 (33)	17.5 (39)	26 (57)		30 (66)		34 (75)	37 (82)	38 (84)	41 (90)	
Condensate Drain Pipe Size	mm (in)	19.05 (3/4)											
Pipe Connection	Type	BSP FEMALE THREAD ADAPTOR											
	Size	mm (in)	19.05 (3/4)						25.4 (1)				
Filter	Type	WASHABLE SARANET FILTER											
	Quantity	pcs	2	2	2	3	3	4	2	3	3	3	
Casing	Colour	WITHOUT PAINT											

Notes:

1. Nominal cooling capacity are based on the conditions below:

Mode	Cooling
Entering Air Temperature	27°C DB / 19°C WB
Entering Water Temperature	7°C
Leaving Water Temperature	12°C



2. Sound measurement position is 1.5m below the centre of the unit with 2m length duct at the air discharge outlet and 1m length of duct at the air return inlet.  
 3. All specifications are subjected to change by the manufacturer without prior notice.

## ACC 02VW - ACC 08VW (Ceiling Concealed - Low Static Pressure)

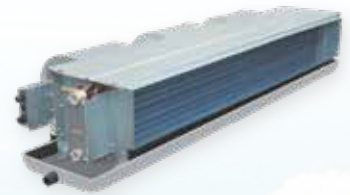
▼ SPECIFICATIONS

Indoor Model Name		ACC 02VW	ACC 03VW	ACC 04VW	ACC 05VW	ACC 06VW	ACC 07VW	ACC 08VW	
Nominal Cooling Capacity	BTU/h	7,575	11,260	14,536	17,231	19,859	22,520	27,980	
	KW	2.22	3.30	4.26	5.05	5.82	6.60	8.20	
Nominal Total Input Power	kW	0.032	0.043	0.056	0.073	0.093	0.113	0.142	
Nominal Operating Current	A	0.15	0.2	0.26	0.34	0.43	0.52	0.65	
Power Source	V/Ph/Hz	220 ~ 240 / 1 / 50							
Control	Air Discharge	DUCTED							
	Operation	WITHOUT CONTROLLER							
Air Flow Rate	High	l/s (CFM)	94 (200)	142 (300)	189 (400)	236 (500)	283 (600)	325 (688)	378 (800)
	Medium	l/s (CFM)	77 (164)	116 (246)	155 (328)	193 (410)	232 (492)	266 (564)	310 (656)
	Low	l/s (CFM)	47 (100)	71 (150)	94 (200)	118 (250)	142 (300)	162 (344)	189 (400)
External Static Pressure With Filter	Pa (in.wg)	12 (0.05)	12 (0.05)	12 (0.05)	12 (0.05)	12 (0.05)	12 (0.05)	30 (0.12)	
Nominal Water Flow Rate	USGPM	1.6	2.6	3.2	3.9	4.5	5.0	6.2	
	Liters/min	6.06	9.84	12.11	14.76	17.03	18.93	23.47	
Head Loss (Cooling)	kPa	18	23	36	29	25	32	28	
Maximum Working Pressure (Cooling)	kPa	1,608							
Surface Air Velocity	m/s	1.18	1.18	1.45	1.57	1.67	1.84	1.51	
Sound Pressure Level (H/M/L)	dBA	34 / 29 / 20	33 / 29 / 24	40 / 36 / 24	40 / 36 / 26	44 / 39 / 30	45 / 40 / 28	46 / 41 / 30	
Unit Dimension	Height	mm (in)	232 (9)						
	Width	mm (in)	625 (25)	815 (32)	865 (34)	945 (37)	1,045 (41)	1,095 (43)	1,425 (56)
	Depth	mm (in)	516 (20)						
Unit Weight	kg	13.2	16	16.7	19.3	21.2	22.4	31.3	
	lb	29.1	35.3	36.8	42.5	46.7	49.4	69	
Condensate Drain Pipe Size	mm(in)	19.05 (3/4)							
Pipe Connection	Type	BSP FEMALE THREAD ADAPTOR							
	Size	mm (in)	19.05 (3/4)						
Filter	Type	WASHABLE SARANET FILTER							
	Quantity	Pcs	1						
	Dimension	Height (mm)	196						
		Width (mm)	438	628	678	758	858	908	1,238
Thickness (mm)		8							
Casing	Colour	WITHOUT PAINT							

Notes:

1. Nominal cooling capacity are based on the conditions below:

Mode	Cooling
Entering Air Temperature	27°C DB / 19.5°C WB
Entering Water Temperature	7°C
Leaving Water Temperature	12°C



2. Sound measurement position is 1m below and in front of the unit.  
 3. All specifications are subjected to change by the manufacturer without prior notice.



## ACC 06FWD - ACC 30FWD (Ceiling Concealed)

▼ SPECIFICATIONS

Model		ACC 06FWD	ACC 09FWD	ACC 12FWD	ACC 15FWD	ACC 18FWD	ACC 24FWD	ACC 30FWD	
Nominal Cooling Capacity	BTU/h	6,600	8,700	12,100	14,000	17,000	24,500	28,500	
	kW	1.93	2.55	3.55	4.10	4.98	7.18	8.35	
Nominal Total Input Power	kW	0.092	0.108	0.131	0.151	0.192	0.265	0.321	
Nominal Operating Current	A	0.42	0.5	0.58	0.66	0.95	1.28	1.57	
Power Source	V/Ph/Hz	220 ~ 240 / 1 / 50							
Control	Air Discharge	DUCTED							
	Operation	WITHOUT CONTROLLER							
Air Flow Rate	High	l/s (CFM)	132 (280)	146 (310)	212 (450)	217 (460)	269 (570)	387 (820)	444 (940)
	Medium	l/s (CFM)	127 (270)	142 (300)	203 (430)	212 (450)	264 (560)	378 (800)	434 (920)
	Low	l/s (CFM)	104 (220)	132 (280)	170 (360)	189 (400)	236 (500)	354 (750)	396 (840)
External Static Pressure With Filter	Pa (in.wg)	53 / 50 / 34	53 / 50 / 44	55 / 50 / 40	78 / 75 / 60	77 / 75 / 61	78 / 75 / 66	78 / 75 / 67	
Nominal Water Flow Rate	USGPM	0.84	1.06	1.5	1.72	2.11	3.04	3.52	
	liters/min	3.17	4	5.67	6.5	8	11.5	13.33	
Head Loss (Cooling)	kPa	24.9	20.8	17.2	31.2	18.7	25.0	19.4	
Maximum Working Pressure (Cooling)	kPa	1,608							
Surface Air Velocity	m/s	1.2	1.33	1.25	1.28	1.24	1.29	1.22	
Sound Pressure Level (H/M/L)	dBA	40 / 39 / 36	40 / 39 / 37	41 / 40 / 37	42 / 41 / 39	45 / 44 / 41	47 / 46 / 45	48 / 47 / 45	
Unit Dimension	Height	mm (in)	247 (10)						
	Width	mm (in)	619 (24)		870 (34)		1,060 (42)	1,390 (55)	1,600 (63)
	Depth	mm (in)	552 (22)						
Packing Dimension	Height	mm (in)	320 (13)						
	Width	mm (in)	737 (29)		987 (39)		1,177 (46)	1,507 (59)	1,717 (68)
	Depth	mm (in)	630 (25)						
Unit Weight	kg (lb)	16 (35)	17 (37)	23 (51)	24 (53)	28 (62)	38 (84)	45 (99)	
Condensate Drain Pipe Size	mm (in)	19.05 (3/4)							
Pipe Connection	Type	BSP FEMALE THREAD ADAPTOR							
	Size	mm (in)	19.05 (3/4)						
Filter	Type	WASHABLE SARANET FILTER							
	Quantity	pcs	2				3		
Casing	Colour	WITHOUT PAINT							

Notes:

1. Nominal cooling capacity are based on the conditions below:

Mode	Cooling
Entering Air Temperature	24°C DB / 18°C WB
Entering Water Temperature	5.5°C
Leaving Water Temperature	14.5°C



2. Sound measurement position is 1.5m below the centre of the unit with 2m length duct at the air discharge outlet and 1m length of duct at the air return inlet.  
 3. All specifications are subjected to change by the manufacturer without prior notice.

**ADB 75BW - ADB 150BW (Ducted Blower)**

▼ SPECIFICATIONS

Model			ADB 75BW	ADB 100BW	ADB 125BW	ADB 150BW
Nominal Cooling Capacity	BTU/h		75,600	95,000	125,000	150,000
	kW		22.16	27.84	36.64	43.96
Nominal Total Input Power	kW		0.76	1.8	1.62	1.91
Nominal Operating Current	A		3.49	7.84	3.33	4.03
Power Source	V/Ph/Hz		220 ~ 240 / 1 / 50		380 ~ 415 / 3 / 50	
Control	Air Discharge		DUCTED			
	Operation		WITHOUT CONTROLLER			
Air Flow Rate	High	l/s (CFM)	1,180 (2,500)	1,510 (3,200)	1,982 (4,200)	2,171 (4,600)
	Medium	l/s (CFM)	991 (2,100)	1,416 (3,000)	N/A	N/A
	Low	l/s (CFM)	826 (1,750)	1,321 (2,800)	N/A	N/A
External Static Pressure With Filter	Pa (in.wg)		100 / 72 / 50	100 / 80 / 60	149*	149*
Nominal Water Flow Rate	USGPM		16.9	21.1	27.7	33.3
	liters/min		64	80	105	126
Head Loss (Cooling)	kPa		34.5	42	48.8	53.3
Maximum Working Pressure (Cooling)	kPa		1,608			
Surface Air Velocity	m/s		2.18	2.79	1.97	2.16
Sound Pressure Level (H/M/L)	dBA		50 / 46 / 42	54 / 52 / 50	58	58
Unit Dimension	Height	mm (in)	572 (23)		885 (35)	
	Width	mm (in)	1,402 (55)		1,540 (61)	
	Depth	mm (in)	605 (24)		850 (33)	
Packing Dimension	Height	mm (in)	762 (30)		1,154 (45)	
	Width	mm (in)	1,605 (63)		1,787 (70)	
	Depth	mm (in)	880 (35)		1,188 (47)	
Unit Weight	kg (lb)		92 (203)	102 (225)	176 (388)	189 (417)
Condensate Drain Pipe Size	mm (in)		19.05 (3/4)			
Pipe Connection	Type		BSP FEMALE THREAD ADAPTOR			
	Size	mm (in)	31.75 (1 1/4)			
Filter	Type		WASHABLE SARANET FILTER		VILEDON R29	
	Quantity	pcs	2		3	
Casing	Colour		IVORY WHITE			

Notes:

1. Nominal cooling capacity are based on the conditions below:

Mode	Cooling
Entering Air Temperature	27°C DB / 19°C WB
Entering Water Temperature	7°C
Leaving Water Temperature	12°C



2. Sound measurement position is 1m in front and center of the unit.  
 3. All specifications are subjected to change by the manufacturer without prior notice.

**ADB 165DW - ADB 300DW (Ducted Blower)**

▼ SPECIFICATIONS

Indoor Model Name			ADB 200FW	ADB 240FW	ADB 300DW
Nominal Cooling Capacity	BTU/h		200,900	239,400	299,800
	KW		58.89	70.17	87.87
Motor Output Power	kW		4	4	5.5
Power Source	V/Ph/Hz		380 ~ 415/3/50		
Control	Air Discharge		HORIZONTAL & NON - CONVERTIBLE		
	Operation		NO CONTROLLER		
Air Flow Rate	High	l/s	2,611	3,083	3,806
		CFM	5,533	6,533	8,064
External Static Pressure With Filter	Pa (in.wg)		250 (1.0)	300 (1.2)	
Nominal Water Flow Rate	USGPM		44.1	52.9	66.3
	Liters/min		166.8	200.4	250.8
Head Loss (Cooling)	kPa		24.66	28.81	39.39
Maximum Working Pressure (Cooling)	kPa		1,600		
Surface Air Velocity	m/s		2.75	2.76	2.75
Sound Pressure Level	dBA		65.3	65.3	67
Unit Dimension	Height	mm (in)	620 (24)	715 (28)	740 (29)
	Width	mm (in)	2,180 (86)	2,270 (89)	2,490 (98)
	Depth	mm (in)	900 (35)	990 (39)	
Packing Dimension	Height	mm (in)	857 (34)	883 (35)	908 (36)
	Width	mm (in)	2,460 (97)	2,680 (106)	2,900 (114)
	Depth	mm (in)	1,220 (48)		
Unit Weight	kg (lb)		234 (516)	269 (593)	306 (675)
Condensate Drain Pipe Size	mm (in)		31.75 (1 1/4)		
Pipe Connection	Type		BSP FEMALE THREAD ADAPTOR		
	Size	mm (in)	63.5 (2 1/2)		
Filter	Type		G3		
	Quantity	pcs	1		
Casing	Colour		WITHOUT PAINT		

Notes:

1. Nominal cooling capacity are based on the conditions below:

Mode	Cooling
Entering Air Temperature	27°C DB / 19°C WB
Entering Water Temperature	7°C
Leaving Water Temperature	12°C



- 2. The external static pressure is inclusive of a flat Grade 3 filter contribute a pressure drop of 88 Pa.
- 3. The unit weight stipulated are net weight, operating weight will increase approximately 20%.
- 4. The sound pressure level value is estimated and the position is 1 m below and after the supply duct.
- 5. All specifications are subjected to change by the manufacturer without prior notice.

**ACSON**<sup>®</sup>  
International  
Air Conditioners

**ACSON MALAYSIA SALES & SERVICE SDN.BHD.** (129688-D)

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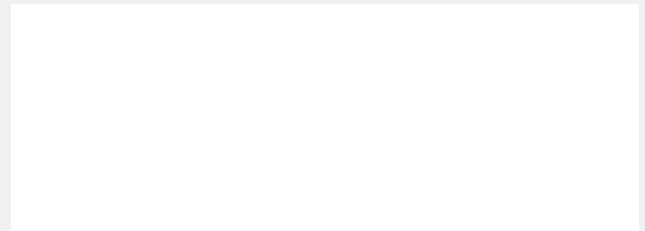
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