

# CHILLED WATER SYSTEM

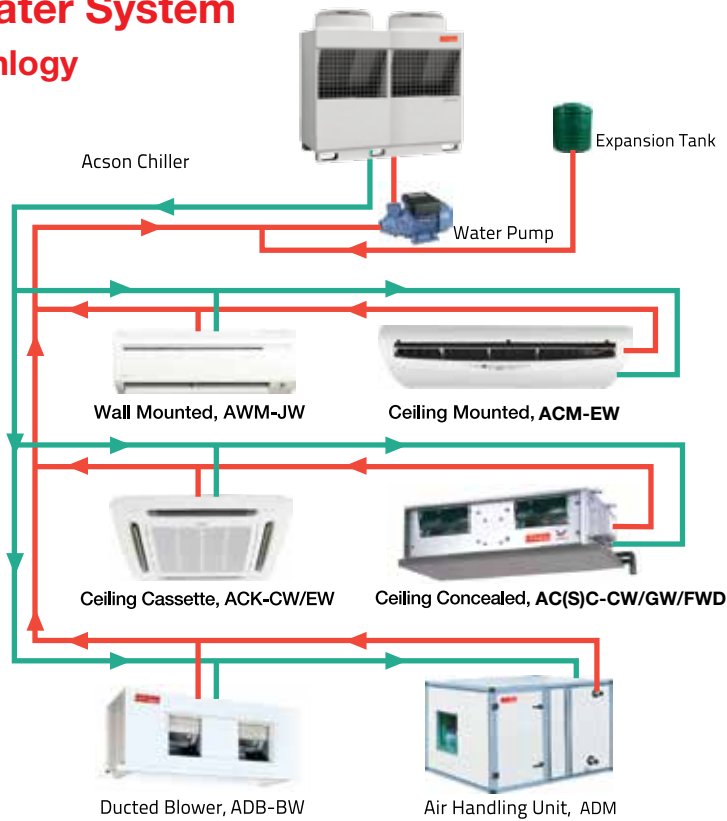
Hydro Technology

**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.

## 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

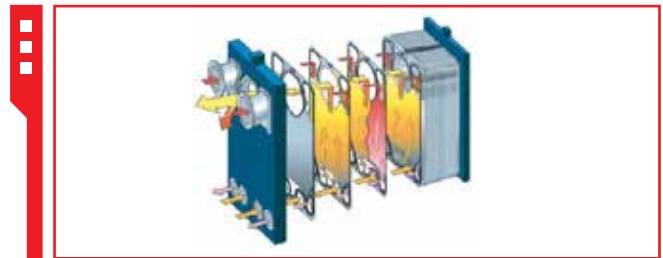
\*\* Modular Chiller - Applicable for A5MAC210D~3360D, A5MAC230D~3680D, A5MACY230E~3680E, A5MAC340D~5440D, A5MAC450D~7200D, A5MWC20~320BR, A5MWC30BR~480BR & A5MWC40~640BR

### ✔ 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

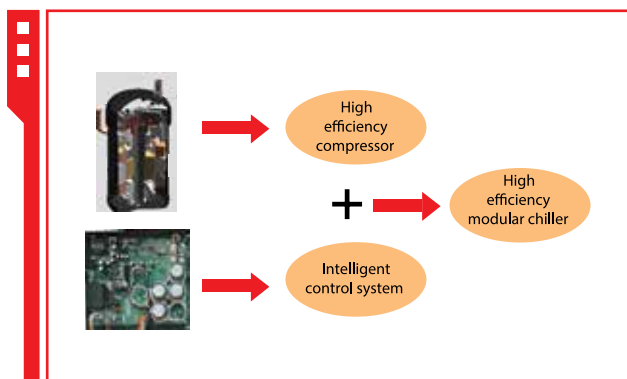
**Refrigerant:**  
R410A

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

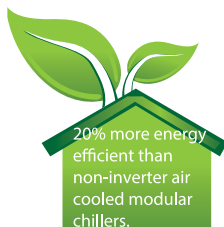
#### ✓ R410A leading-edge Inverter Technology

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.



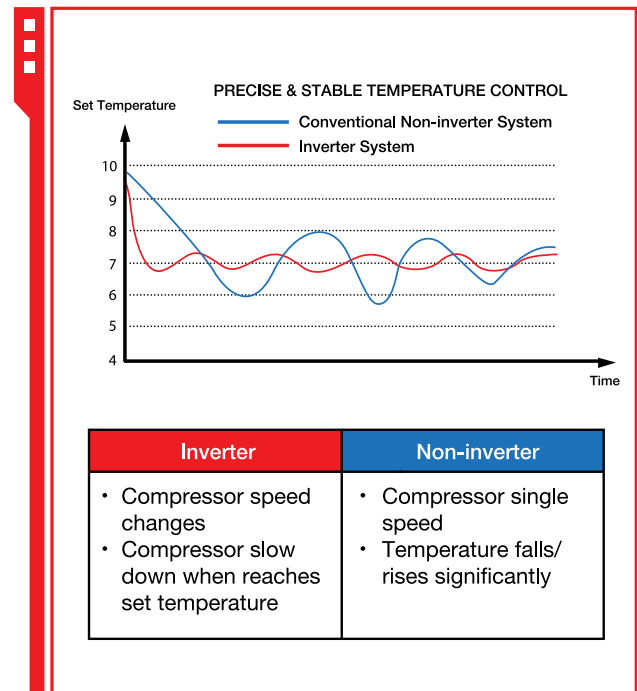
#### ✓ More Efficient

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.



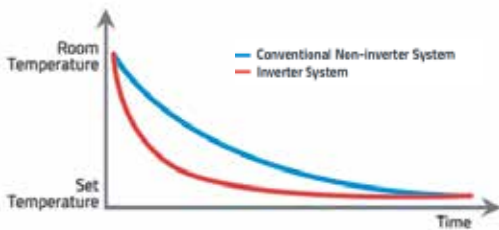
#### ✓ Precise Temperature Control

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

Ultmost 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

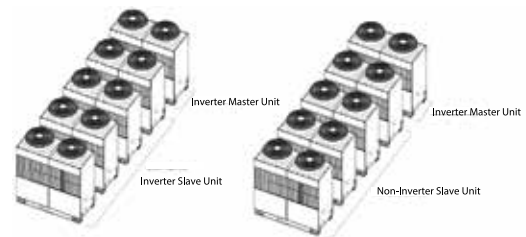
Redundancy feature back up capacity and capabilities to continue to run given a component failure. Fault of any unit can be isolated for service and will not affect the normal operation of other units.



### ✓ 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

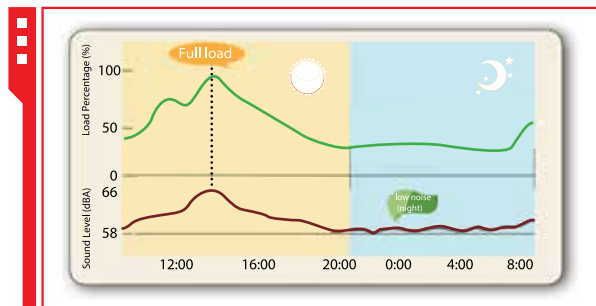
Able to couple with different Air Handling Unit (AHU) and Fan Coil Unit (FCU) which fresh air can be easily introduce from outside and extract stale air to the outside thus improve Indoor Air Quality (IAQ).

### ✓ 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.

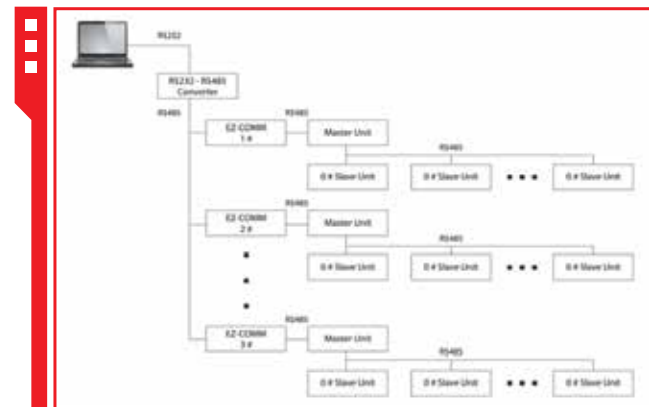
## Practically Silent Operation

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)   |               |               |               |               |               |
| Unit Dimension                 | 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)   |
| 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)      |

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.

## 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

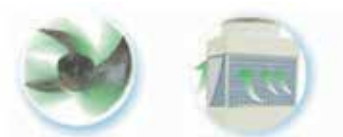
### ✔ Modular Design

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.

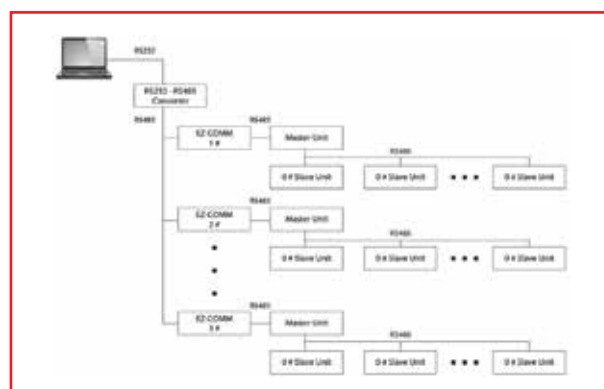


### ✔ Intelligent Control System with Safety Protection

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   | 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)      |

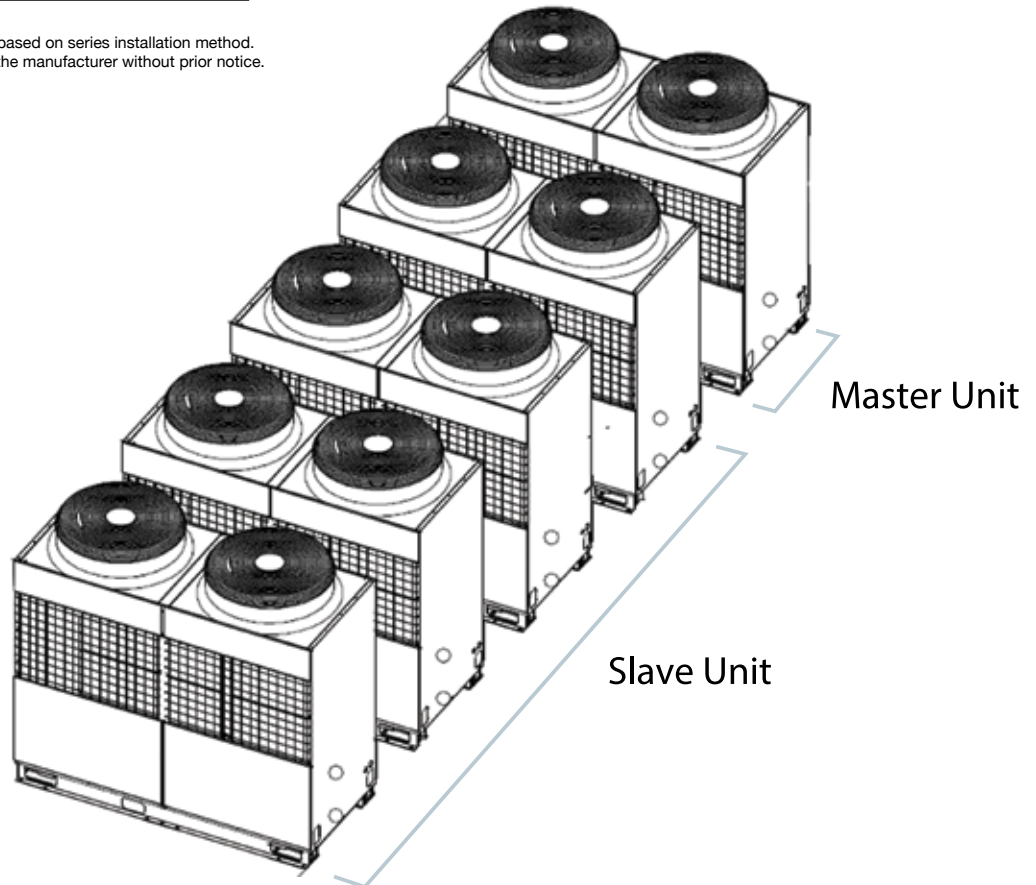
Arbitrary combination up to 16 modules

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             | 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)      |

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           | dB(A)   | 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)             |               |               |               |               |                |
| 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) | 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:

- 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 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.

## 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           | dB(A)             | 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) 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)           | 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<br>110 - 1760<br>(High EER Model) | 140 - 2240<br>145 - 2320<br>(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

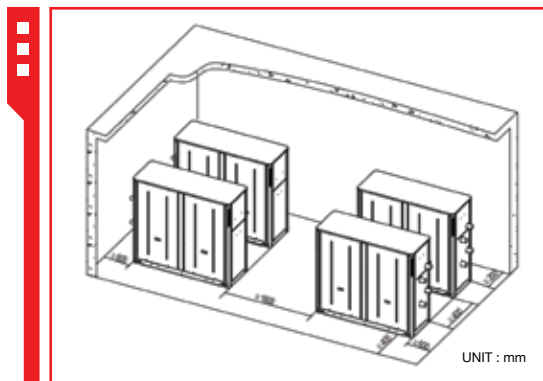
#### Reliable Operation

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



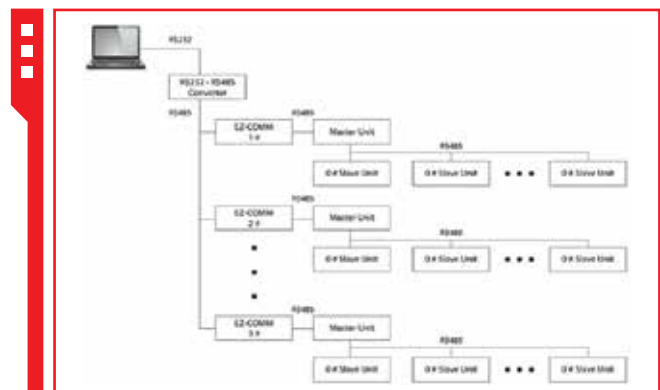
#### Change Whenever Need

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 | m <sup>3</sup> /h  | 11.9          | 23.8          | 35.7          | 47.6          | 59.5          | 71.4        |
|                                | Condenser  | m <sup>3</sup> /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      | mm (in)            | 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 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 (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      | mm (in)            | 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:  
 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:

| 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 |

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.

## 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      | mm (in)            | 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      | mm (in)            | 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 | m <sup>3</sup> /h  | 24.9           | 49.8          | 74.7          | 99.6          | 199.2          | 398.4       |
|                                | Condenser  | m <sup>3</sup> /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      | mm (in)            | 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 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.

## Air Cooled Mini Chiller Series

|                  |    |   |   |   |   |   |
|------------------|----|---|---|---|---|---|
| Model            |    |  |  |  |  |  |
|                  |    | AMAC 30C<br>A5AC 20/25/30CR<br>A4AC 25/30C  | AMAC 40/50/60C<br>A5AC 40/50/55CR<br>A4AC 40/50/60C                               | AMAC 80/100/120/150C<br>A4AC 80/100/120/150C                                      | A5MAC 30/40/50ER<br>A5MAC 60/70/80ER  | A5MAC 100/120/150ER   |
| Cooling capacity | kW | 8.8<br>4.6 - 7.3<br>6.7 - 7.9   | 11.6 - 15.8<br>10 - 13.2<br>11.3 - 14.7   | 24.9 - 40.4<br>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     | m³/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           | R410A   |                    |            |                    |           |
|                             | 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     | m³/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    | R410A   |                    |                    |                    |                |
|                             | 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:
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.

**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        | dB(A)   |         | 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    |         | R410A              |            |           |                    |           |
|                             | 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        | dB(A)   |         | 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    |         | R410A              |                   |                |                    |
|                             | 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   | Height              | 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   | Height              | 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 DW 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

**SWING Button**  
Swing at your command or fix the louver at your preferred position.

**MODE Button**  
Different Mode for different ambient - Cool, Dry, and Fan.

**DELAY TIMER Button**  
Delay the "OFF" timer function by maximum of 2 hour.

**FAN Button**  
Control your airflow to Low, Mid, High or Auto to let your unit do the thinking.

**TIMER Button**  
Turn on of off the unit automatically with its built in timer. Maximum of 2 ON and 2 OFF timers.

**LCD Display**  
Every information on the unit vividly display in LCD screen.

**TEMPERATURE Button**  
Set the temperature according to your preferences.

**SLEEP Button**  
The sleep mode gradually increase the room temperature to ensure a comfortable and mellow sleeping environment.

**ON/OFF POWER Button**  
The Power Button turn the unit ON or OFF.

**Real Time Clock (RTC)**  
Set the real time clock.

**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                              |              |              |              |              |              |             |

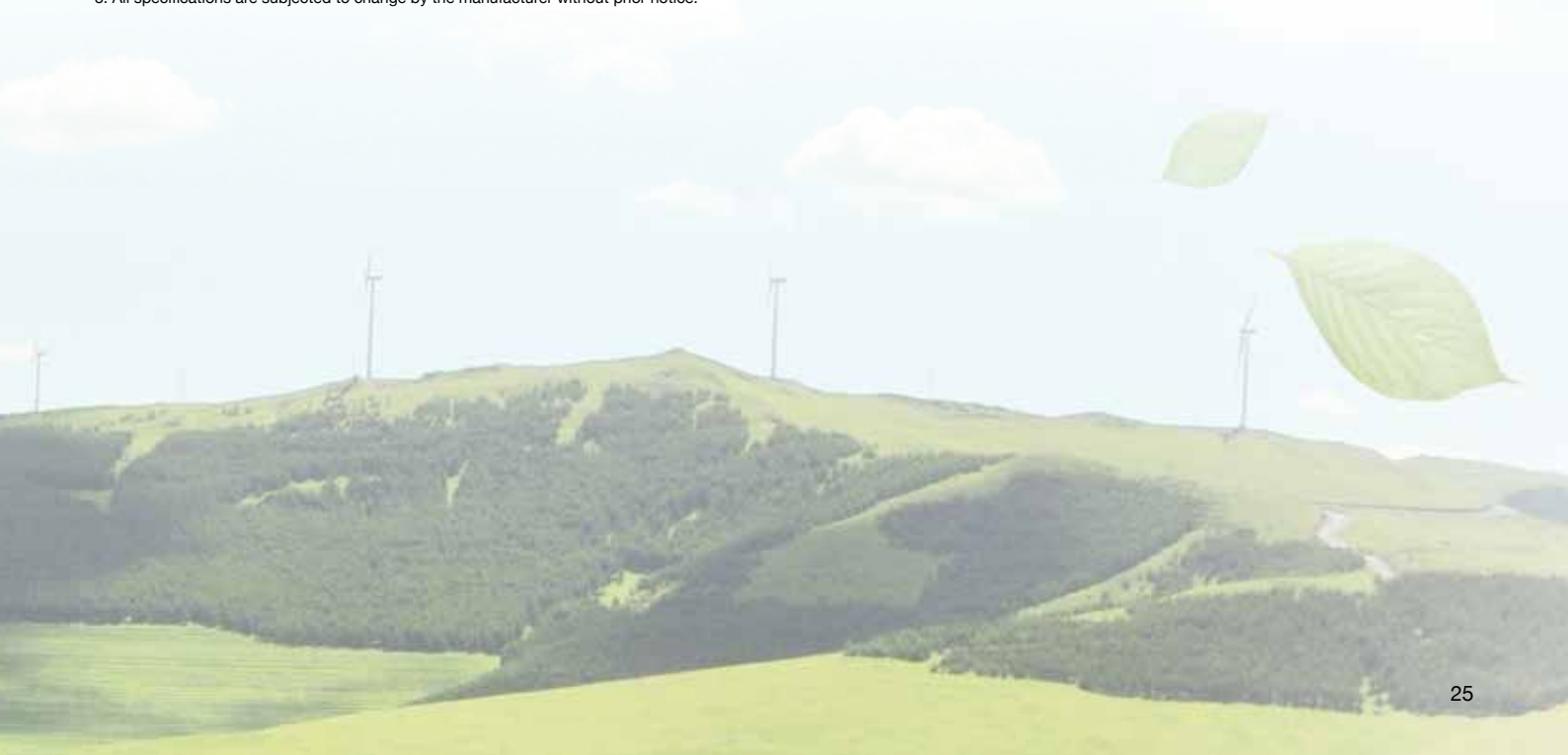
Notes:

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           | 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 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        |           | DUCTED                        |              |              |              |                |               |                 |                |  |
|                                    | Operation (Optional) |           | WIRED AND WIRELESS CONTROLLER |              |              |              |                |               |                 |                |  |
| 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           | Pa (in.wg)           |           | 49 / 44 / 36                  | 49 / 42 / 28 | 49 / 45 / 41 | 49 / 43 / 30 | 167 / 128 / 88 | 128 / 88 / 39 | 157 / 137 / 108 | 157 / 137 / 98 |  |
| 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)       | dB(A)                |           | 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           | 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 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        | DUCTED                        |              |              |              |                |               |                 |                |             |
|                                    | Operation (Optional) | WIRED AND WIRELESS CONTROLLER |              |              |              |                |               |                 |                |             |
| 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 (6600)     | 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           | Pa (in.wg)           | 49 / 44 / 36                  | 49 / 42 / 28 | 49 / 45 / 41 | 49 / 43 / 30 | 167 / 128 / 88 | 128 / 88 / 39 | 157 / 137 / 108 | 157 / 137 / 98 |             |
| 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)       | dBA                  | 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 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           | 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 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           | Pa (in.wg)    | 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 |             |            |
| 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)       | dB(A)         | 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          |              |              |              |             |            |
|                                    | 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 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           | 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 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           | Pa (in.wg)    | 30 / 19 / 12              | 30 / 16 / 7  | 30 / 18 / 7  | 30 / 21 / 13 | 30 / 19 / 10 | 30 / 18 / 11 | 30 / 20 / 13 |             |
| 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           | 7                         | 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 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           | 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                       |              |              |              |              |              |              |
| 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           | 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

| Model                              |               | ADB 165DW                 | ADB 200DW  | ADB 245DW    | ADB 300DW   |        |
|------------------------------------|---------------|---------------------------|------------|--------------|-------------|--------|
| Nominal Cooling Capacity           | BTU/h         | 165,400                   | 197,500    | 244,400      | 310,200     |        |
|                                    | kW            | 48.47                     | 57.89      | 71.62        | 90.90       |        |
| Motor Output Power                 | kW            | 2.2                       | 2.2        | 3.0          | 4.0         |        |
| Power Source                       | V/Ph/Hz       | 380 - 415 / 3 / 50        |            |              |             |        |
| Control                            | Air Discharge | DUCTED                    |            |              |             |        |
|                                    | Operation     | WITHOUT CONTROLLER        |            |              |             |        |
| Air Flow Rate                      | High          | l/s (CFM)                 | 4,709      | 5,886        | 7,063       | 8,829  |
|                                    |               | CEM                       | 9,978      | 12,472       | 14,966      | 18,708 |
| External Static Pressure           | Pa (in.wg)    | 300 (1.2)                 |            |              |             |        |
| Nominal Water Flow Rate            | USGPM         | 34.87                     | 41.69      | 41.37        | 59.76       |        |
|                                    | liters/min    | 132                       | 157.8      | 156.6        | 226.2       |        |
| Head Loss (Cooling)                | kPa           | 54.7                      | 26.67      | 136.66       | 123.92      |        |
| Maximum Working Pressure (Cooling) | kPa           | 1,608                     |            |              |             |        |
| Surface Air Velocity               | m/s           | 2.73                      | 2.73       | 2.78         | 2.82        |        |
| Unit Dimension                     | Height        | 641 (25)                  |            | 732 (29)     | 758 (30)    |        |
|                                    | Width         | 1800 (71)                 | 2,180 (86) | 2,270 (89)   | 2,490 (98)  |        |
|                                    | Depth         | 1,130 (44)                |            | 1,180 (46)   |             |        |
| Packing Dimension                  | Height        | 766 (30)                  | 762 (30)   | 857 (34)     | 883         |        |
|                                    | Width         | 1990 (78)                 | 2,370 (93) | 2,460 (97)   | 2,680 (106) |        |
|                                    | Depth         | 1,170 (46)                |            | 1,220 (48)   |             |        |
| Unit Weight                        | kg (lb)       | 92 (203)                  | 102 (225)  | 176 (388)    | 189 (417)   |        |
| Condensate Drain Pipe Size         | mm (in)       | 31.75 (1 1/4)             |            |              |             |        |
| Pipe Connection                    | Type          | BSP FEMALE THREAD ADAPTOR |            |              |             |        |
|                                    | Size          | 50.8 (2)                  |            | 63.5 (2 1/4) |             |        |
| Filter                             | Type          | Non-Washable Flat G3      |            |              |             |        |
|                                    | Quantity      | 1                         |            |              |             |        |
| 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. The external static pressure is inclusive of a flat Grade 3 filter contribute a pressure drop of 60 Pa.
- 3. The unit weight stipulated are net weight, operating weight will increase approximately 20%.
- 4. All specifications are subjected to change by the manufacturer without prior notice.





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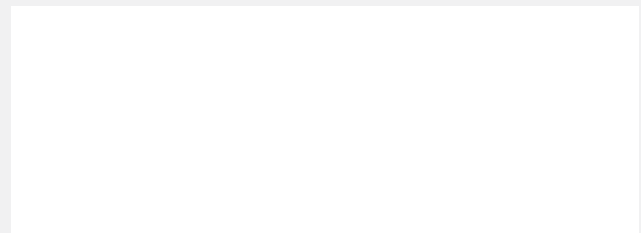
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