

# ***WATER SOURCE SYSTEM***

Maximum Flexibility

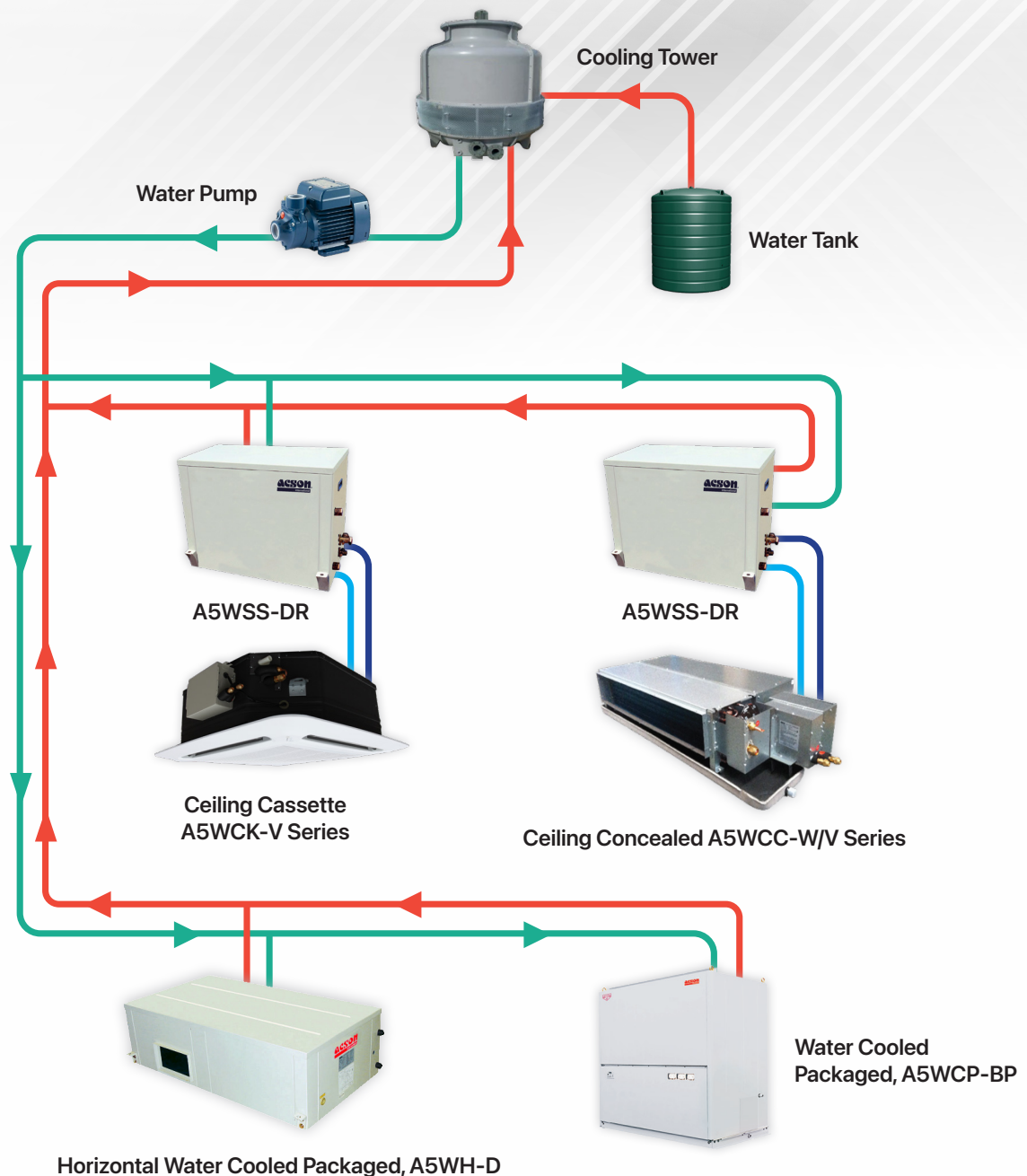


**ACSON**  
International  
Air Conditioners

# **WATER SOURCE SYSTEM**

## **Maximum Flexibility**

Acson water source system working principle is similar to that of a direct expansion system except water is used to cool down the condenser instead of air. Giving a better efficiency compared to air cooled. The whole process starts with the cooling tower where a continuous stream of water is circulated from the cooling water to the water packaged unit. Where the heat generated from the compression of refrigerant is transfer to the water. The water will then discharge the heat to the environment through evaporation at the cooling tower.



\*Picture is for illustration purpose only.

## Features

### No Visible Outdoor Unit

Acson water source system uses either tube in tube or shell and tube as the heat exchanger. There will be no unsightly outdoor unit visible.

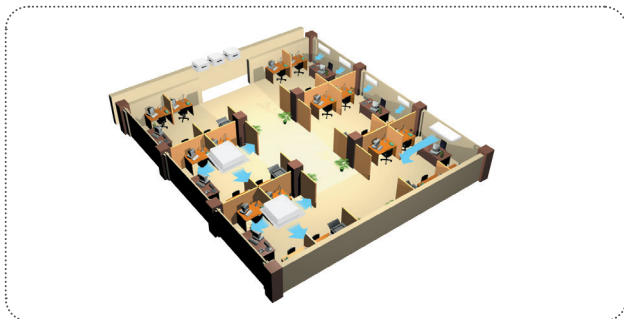


### Seaside Application

Since both indoor and outdoor will be placed in indoor environment. Water source system is economical choice for seaside application because exposure to the corrosive environment is kept to minimum.

### Zoned Comfort & Control

Acson water source system provides space cooling for a large number of individual building zones such as individual dwelling units in a multi-unit building. An individual water source is installed in each space or zone is connected to a single circulating water loop. Using various sensors, each unit has its own control system. This enables the same occupants that are using the same cooling tower system to have multiple sets of setting depending on the particular water source packaged unit.



### Easier, Lower Initial Installation & Expansion Cost

With so many indoor units to be choose from. Piping and duct work could be minimize.

### Reliable & Stable Operation

Acson water source system utilize either a tube in tube or shell and tube heat exchanger. Both system stand out in term of efficiency, cost and performance. Couple together with pressure switches, control logic, temperature sensors the system become efficient, economical yet reliable.



### Lower Maintenance Cost

Acson water source products are designed with easier accessibility, especially to the compressor, blower and control section. Removable top and side panel greatly reduce the time required in any maintenance work.

### Energy Saving

Compare to conventional air-cooled air conditioning system, water source system yield better efficiency.

### Quiet Operation

Acson water source system uses only water making it very quiet compared to conventional air-cooled air conditioning system.

# Water Source Split Product Series - AWSS



Acson water source split (AWSS) system is one of the most efficient and high-performance systems. It is perfect for buildings that require cooling operation at different zones. With this, different areas or zones can be cooled at different temperatures simultaneously. The heat is rejected and added in a water loop using a cooling tower. The units are ready to install, operate and maintain.

**Model:** A5WSS 10 - 60DR

**Nominal Cooling Capacity:** 9000 BTU/h - 49,900 BTU/h

**Refrigerant:** R410A

## Features

### Maximum Installation Flexibility

The compact, lower profile, as well as variety of indoor and outdoor combination, make it easier to fix specific architecture and potential design construction of the building, or replacement application space requirement.

### Piping Reduction Between Indoor & Outdoor

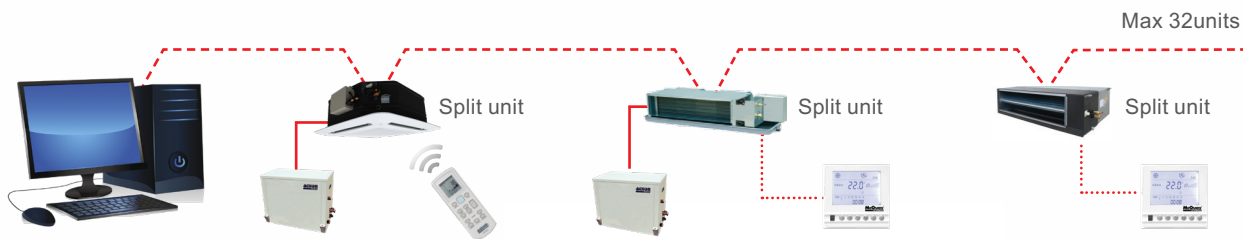
Since the unit can be concealed within the plaster ceiling, the piping between the indoor and condensing unit can be kept to a minimum.

### Variety of Products for Combinations

Diversity is our strength, Acson water source split have few products and cooling capacity to be chosen from. Few combinations are available to be coupled with the condensing unit: Ceiling cassette and ceiling concealed.



### Control - Standard ModBus interface of Building Automation System (BAS)



# Specifications

## AWSS - DR & A5WCC - W/V (Coupled with Ceiling Concealed V/W Series)

| Model                    |      |               | Indoor    | A5WCC010W          | A5WCC015W    | A5WCC018W    | A5WCC020W    | A5WCC025V    | A5WCC030V    | A5WCC040V    | A5WCC050V          | A5WCC060V    |              |
|--------------------------|------|---------------|-----------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------|--------------|--------------|
|                          |      |               | Outdoor   | A5WSS010DR         | A5WSS015DR   | A5WSS018DR   | A5WSS020DR   | A5WSS025DR   | A5WSS030DR   | A5WSS040DR   | A5WSS050DR         | A5WSS060DR   |              |
| Nominal Cooling Capacity |      |               | BTU/hr    | 9,100              | 12,300       | 16,400       | 19,800       | 21,000       | 25,000       | 32,500       | 42,700             | 49,900       |              |
|                          |      |               | W         | 2,650              | 3,600        | 4,800        | 5,800        | 6,150        | 7,300        | 9,500        | 12,500             | 14,600       |              |
| Nominal Input Power      |      |               | W         | 645                | 855          | 1,400        | 1,500        | 1,550        | 1,850        | 2,350        | 3,100              | 3,800        |              |
| Nominal Running Current  |      |               | A         | 3.04               | 4.02         | 7.00         | 7.00         | 7.43         | 8.79         | 11.09        | 6.52               | 8.08         |              |
| EER                      |      |               | BTU/h/W   | 14.11              | 14.39        | 11.71        | 13.20        | 13.55        | 13.51        | 13.83        | 13.77              | 13.13        |              |
|                          |      |               | W/W       | 4.11               | 4.21         | 3.43         | 3.87         | 3.97         | 3.95         | 4.04         | 4.03               | 3.84         |              |
| Power Source             |      |               | V/Ph/Hz   | 220 - 240 / 1 / 50 |              |              |              |              |              |              | 380 - 415 / 3 / 50 |              |              |
| INDOOR UNIT              |      |               |           |                    |              |              |              |              |              |              |                    |              |              |
| Control                  |      | Air Discharge |           | DUCTED             |              |              |              |              |              |              |                    |              |              |
|                          |      | Operation     |           | WIRED OR WIRELESS  |              |              |              |              |              |              |                    |              |              |
| Air Flow                 | High | m³/h/CFM      | 440 / 259 | 620 / 365          | 850 / 500    |              | 900 / 530    | 1000 / 589   | 1750 / 1030  | 1900 / 1118  | 2400 / 1413        |              |              |
| External Static Pressure |      |               | Pa        | 15(0/30)           |              |              |              | 30(10)       |              | 30(50)       | 30(50)             |              |              |
| Sound Pressure Level     |      | High          | dBA       | 28                 | 35           | 38           | 38           | 41           | 43           | 45           | 46                 | 48           |              |
|                          |      | Medium        | dBA       | 26                 | 32           | 35           | 35           | 39           | 41           | 42           | 43                 | 45           |              |
|                          |      | Low           | dBA       | 25                 | 29           | 32           | 32           | 36           | 39           | 41           | 41                 | 44           |              |
| Unit Dimension           |      | Height        | mm / in   | 210 / 8.27         |              | 210 / 8.27   |              | 250 / 9.84   |              | 250 / 9.84   |                    | 250 / 9.84   |              |
|                          |      | Width         | mm / in   | 700 / 27.56        |              | 900 / 35.43  |              | 1190 / 46.85 |              | 1635 / 64.37 |                    | 1824 / 71.81 |              |
|                          |      | Depth         | mm / in   | 450 / 17.72        |              | 450 / 17.72  |              | 490 / 19.29  |              | 490 / 19.29  |                    | 490 / 19.29  |              |
| Packing Dimension        |      | Height        | mm / in   | 230 / 9.06         | 230 / 9.06   | 230 / 9.06   | 230 / 9.06   | 265 / 10.43  | 265 / 10.43  | 265 / 10.43  | 265 / 10.43        | 265 / 10.43  |              |
|                          |      | Width         | mm / in   | 860 / 33.86        | 1060 / 41.73 | 1060 / 41.73 | 1060 / 41.73 | 1211 / 47.68 | 1211 / 47.68 | 1641 / 64.61 | 1641 / 64.61       | 1641 / 64.61 |              |
|                          |      | Depth         | mm / in   | 540 / 21.26        | 540 / 21.26  | 540 / 21.26  | 540 / 21.26  | 560 / 22.05  | 560 / 22.05  | 520 / 20.48  | 520 / 20.48        | 520 / 20.48  |              |
| Condensate Drain Pipe    |      | Type          |           | BSP- MALE          |              |              |              |              |              |              |                    |              |              |
|                          |      | Size          | mm / in   | 20.5 / 0.81"       |              |              |              | 19.05 / 3/4" |              |              |                    |              |              |
| Unit Weight              |      |               | kg/lb     | 17.4 / 38.36       | 20 / 44.09   |              |              | 21.5 / 47    |              | 35 / 77      | 36.5 / 80.47       | 39.5 / 87.08 |              |
| OUTDOOR UNIT             |      |               |           |                    |              |              |              |              |              |              |                    |              |              |
| Nominal Water Flow Rate  |      |               | l/s(m³/h) | 0.16 / 0.57        | 0.21 / 0.77  | 0.29 / 1.03  | 0.35 / 1.25  | 0.37 / 1.32  | 0.44 / 1.57  | 0.57 / 2.04  | 0.75 / 2.69        | 0.87 / 3.14  |              |
| Water Pressure Drop      |      |               | kPa       | 7                  | 14           | 26           | 30           | 20           | 23           | 23           | 25                 | 21           |              |
| Water Pipe Size          |      | Type          |           | BSP - MALE         |              |              |              |              |              |              |                    |              |              |
|                          |      | Side          | mm / in   | 19.05 / 3/4"       |              |              |              |              |              |              | 25.4 / 1"          |              |              |
| Sound Pressure Level     |      |               | dBA       | 30                 | 30           | 33           | 33           | 33           | 34           | 38           | 39                 | 39           |              |
| Unit Dimension           |      | Height        | mm / in   | 375 / 14.76        |              | 420 / 16.54  |              | 420 / 16.54  | 480 / 18.90  | 500 / 19.69  |                    |              |              |
|                          |      | Width         | mm / in   | 465 / 18.31        |              | 520 / 20.47  |              | 520 / 20.47  | 620 / 24.41  | 690 / 27.17  |                    |              |              |
|                          |      | Depth         | mm / in   | 325 / 12.80        |              | 375 / 14.76  |              | 375 / 14.76  | 395 / 15.55  | 420 / 16.54  |                    |              |              |
| Packing Dimension        |      | Height        | mm / in   | 435 / 17.13        |              | 480 / 18.90  |              |              | 540 / 21.26  | 560 / 22.05  | 560 / 22.05        |              |              |
|                          |      | Width         | mm / in   | 525 / 20.67        |              | 585 / 23.03  |              |              | 690 / 27.17  | 790 / 31.10  | 790 / 31.10        |              |              |
|                          |      | Depth         | mm / in   | 335 / 13.19        |              | 390 / 15.35  |              |              | 405 / 15.94  | 440 / 17.32  | 440 / 17.32        |              |              |
| Unit Weight              |      |               | kg/lb     | 28 / 62            | 30 / 66      | 38 / 84      |              | 39 / 86      | 61 / 134     | 63 / 139     | 76 / 168           | 78 / 172     |              |
| Pipe Connection          |      | Type          |           | FLARE              |              |              |              |              |              |              |                    |              |              |
|                          |      | Size          | Liquid    | mm / in            | 6.35 / 1/4"  |              |              |              | 9.52 / 3/8"  |              |                    |              | 12.7 / 1/2"  |
|                          |      |               | Gas       | mm / in            | 9.52 / 3/8"  | 12.7 / 1/2"  |              |              | 15.88 / 5/8" |              |                    |              | 19.05 / 3/4" |
| Refrigerant Type         |      |               | R410A     |                    |              |              |              |              |              |              |                    |              |              |
| Refrigerant Charge       |      |               | kg/lb     | 0.64 / 1.41        | 0.65 / 1.43  | 0.82 / 1.81  | 0.82 / 1.81  | 1.1 / 2.43   | 1.17 / 2.58  | 1.8 / 3.97   | 1.6 / 3.53         | 2.1 / 4.63   |              |

### Notes:

1. All specification are subjected to change by the manufacturer without prior notice.
2. Nominal cooling capacity are based on the condition below:

|                                    |                   |
|------------------------------------|-------------------|
| Indoor temperature                 | 27°C DB / 19°C WB |
| Condenser inlet water temperature  | 30°C              |
| Condenser outlet water temperature | 35°C              |

# Specifications

## AWSS - DR & A5WCK - V (Coupled with Ceiling Cassette - V Series)

| Model                    |  |               | Indoor     | A5WCK020V         | A5WCK030V   | A5WCK050V          |  |
|--------------------------|--|---------------|------------|-------------------|-------------|--------------------|--|
|                          |  |               | Outdoor    | A5WSS020DR        | A5WSS030DR  | A5WSS050DR         |  |
| Nominal Cooling Capacity |  |               | BTU/hr     | 19,200            | 25,000      | 41,700             |  |
|                          |  |               | W          | 5,600             | 7,300       | 12,200             |  |
| Nominal Input Power      |  |               | W          | 1,420             | 1,850       | 3,100              |  |
| Nominal Running Current  |  |               | A          | 7.00              | 8.79        | 6.52               |  |
| EER                      |  |               | BTU/h/W    | 13.52             | 13.51       | 13.45              |  |
|                          |  |               | W/W        | 3.94              | 3.95        | 3.94               |  |
| Power Source             |  |               | V/Ph/Hz    | 220 - 240/ 1 / 50 |             | 380 - 415 / 3 / 50 |  |
| INDOOR UNIT              |  |               |            |                   |             |                    |  |
| Control                  |  | Air Discharge |            | AUTOMATIC LOUVER  |             |                    |  |
|                          |  | Operation     |            | WIRED OR WIRELESS |             |                    |  |
| Air Flow                 |  | High          | m³/h / CFM | 1100 / 647        | 1150 / 677  | 1750 / 1030        |  |
| Sound Pressure Level     |  | High          | dBA        | 42                | 42          | 50                 |  |
|                          |  | Medium        | dBA        | 37                | 37          | 46                 |  |
|                          |  | Low           | dBA        | 34                | 34          | 43                 |  |
| Unit Dimension           |  | Height        | mm / in    | 265 / 10.43       |             | 315 / 12.40        |  |
|                          |  | Width         | mm / in    | 820 / 32.28       |             |                    |  |
|                          |  | Depth         | mm / in    | 820 / 32.28       |             |                    |  |
| Packing Dimension        |  | Height        | mm / in    | 325 / 12.80       |             | 375 / 14.76        |  |
|                          |  | Width         | mm / in    | 948 / 37.32       |             |                    |  |
|                          |  | Depth         | mm / in    | 918 / 36.14       |             |                    |  |
| Condensate Drain Pipe    |  | Type          |            | BSP- MALE         |             |                    |  |
|                          |  | Size          | mm / in    | 20.5 / 0.81"      |             |                    |  |
| Unit Weight              |  |               | kg / lb    | 32+5 / 71+11      |             | 35+5 / 77+11       |  |
| OUTDOOR UNIT             |  |               |            |                   |             |                    |  |
| Nominal Water Flow Rate  |  |               | l/s(m³/h)  | 0.33 / 1.2        | 0.44 / 1.57 | 0.73 / 2.62        |  |
| Water Pressure Drop      |  |               | kPa        | 26                | 23          | 25                 |  |
| Water Pipe Size          |  | Type          |            | BSP - MALE        |             |                    |  |
|                          |  | Side          | mm / in    | 19.05 / 3/4"      |             | 25.4 / 1"          |  |
| Sound Pressure Level     |  |               | dBA        | 33                | 34          | 39                 |  |
| Unit Dimension           |  | Height        | mm / in    | 420 / 16.54       | 480 / 18.90 | 500 / 19.69        |  |
|                          |  | Width         | mm / in    | 520 / 20.47       | 620 / 24.41 | 690 / 27.17        |  |
|                          |  | Depth         | mm / in    | 375 / 14.76       | 395 / 15.55 | 420 / 16.54        |  |
| Packing Dimension        |  | Height        | mm / in    | 480 / 18.90       | 540 / 21.26 | 560 / 22.04        |  |
|                          |  | Width         | mm / in    | 585 / 23.03       | 690 / 27.17 | 790 / 31.10        |  |
|                          |  | Depth         | mm / in    | 390 / 15.35       | 405 / 15.94 | 440 / 17.32        |  |
| Unit Weight              |  |               | kg / lb    | 38 / 83.78        | 61 / 134.48 | 76 / 167.55        |  |
| Pipe Connection          |  | Type          |            | FLARE             |             |                    |  |
|                          |  | Size          | Liquid     | mm / in           | 6.35 / 1/4" | 9.52 / 3/8"        |  |
|                          |  |               | Gas        | mm / in           | 12.7 / 1/2" | 15.88 / 5/8"       |  |
| Refrigerant Type         |  |               |            | R410A             |             |                    |  |
| Refrigerant Charge       |  |               | kg / lb    | 0.82 / 1.8        | 1.17 / 2.6  | 1.6 / 3.5          |  |

### Notes:

1. All specification are subjected to change by the manufacturer without prior notice.
2. Nominal cooling capacity are based on the condition below:

|                                    |                   |
|------------------------------------|-------------------|
| Indoor temperature                 | 27°C DB / 19°C WB |
| Condenser inlet water temperature  | 30°C              |
| Condenser outlet water temperature | 35°C              |

# Water Cooled Packaged (Horizontal) Product Series - A5WH-D



Acson horizontal water-cooled packaged air conditioner is versatile with wide range of external static pressure up for selection, it is suitable for both commercial and industrial application. Using tube in tube as its heat exchanger. Acson horizontal water cooled packaged is an efficient yet economical choice.

**Model:** A5WH010D - 150D

**Nominal Cooling Capacity:** 9,400 BTU/h - 128,000 BTU/h

**Refrigerant:** R410A

## Features

### No Duct Work Needed

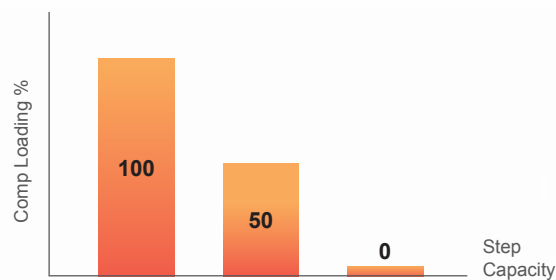
With range of external static pressure available. Acson horizontal water cooled packaged could be fitted with ducts or use as it is. Making it as an ideal choice for application that are unable to use chiller or as a backup to chiller.

### Intelligent Control System

These series adapt various ways of control, including standard wired controller and a central controller (max to 64 units) as other options.

### Partial Loading Capacity

For certain models, which have two or more compressors in their system, partial loading is achievable by switching on compressor depends on the needs.



# Specifications

## A5WH 010D - A5WH 050D (Packaged Horizontal Type)

| Model                    |               |            | A5WH 010D                    | A5WH 015D   | A5WH 020D     | A5WH 025D     | A5WH 030D           | A5WH 040D          | A5WH 050D           |
|--------------------------|---------------|------------|------------------------------|-------------|---------------|---------------|---------------------|--------------------|---------------------|
| Nominal Cooling Capacity | BTU/h         |            | 9,400                        | 14,600      | 17,900        | 22,700        | 29,900              | 34,800             | 42,700              |
|                          | W             |            | 2,750                        | 4400        | 5,250         | 6,650         | 8,770               | 10,200             | 12,500              |
| Nominal Input Power      | W             |            | 700                          | 1040        | 1,220         | 1,520         | 2,230               | 2,250              | 2,850               |
| Nominal Running Current  | A             |            | 3.38                         | 4.91        | 5.93          | 7.46          | 11.03               | 10.57              | 13.76               |
| EER                      | BTU/h/W       |            | 13.43                        | 14.42       | 14.67         | 14.93         | 13.41               | 15.47              | 14.98               |
|                          | W/W           |            | 3.93                         | 4.23        | 4.30          | 4.38          | 3.93                | 4.53               | 4.39                |
| Expansion Device         |               |            | CAPILLARY TUBE               |             |               |               |                     |                    |                     |
| Power Source             |               | V/Ph/Hz    | 220 - 240 / 1 / 50           |             |               |               |                     |                    | 380 - 415 /3 /50    |
| Control                  | Air Discharge |            | DUCTED                       |             |               |               |                     |                    |                     |
|                          | Operation     |            | WIRED OR WIRELESS (OPTIONAL) |             |               |               |                     |                    |                     |
| Air Flow                 |               | m³/h / CFM | 580 / 341                    | 800 / 470   | 1,050 / 618   | 1,250 / 736   | 1,700 / 1,000       | 1,900 / 1,118      | 2,300 / 1,354       |
| External Static Pressure |               | Pa / in.wg | 20 / 0.08                    | 30 / 0.12   | 30 / 0.12     | 30 / 0.12     | 30 / 0.12           | 50 / 0.2           | 50 / 0.2            |
| Sound Pressure Level     |               | dBA        | 34                           | 41          | 40            | 45            | 48                  | 44                 | 47                  |
| Condensate Drain Size    |               | mm         | 20                           | 20          | 20            | 20            | 20                  | 20                 | 20                  |
| Water Pipe Connection    | Type          |            | BSP - MALE                   |             |               |               |                     |                    |                     |
|                          | Size          | mm / in    | 19.05 / 3/4"                 |             |               |               |                     |                    |                     |
| Condenser                |               | Type       | TUBE IN TUBE                 |             |               |               |                     |                    |                     |
| Nominal Water Flow Rate  |               | l/s (m³/h) | 0.17 (0.61)                  | 0.26 (0.95) | 0.31 (1.12)   | 0.39 (1.42)   | 0.54 (1.94)         | 0.59 (2.14)        | 0.74 (2.67)         |
| Water Pressure Drop      |               | kPa        | 13                           | 32          | 34            | 60            | 40                  | 40                 | 60                  |
| Unit Dimension           | Height        | mm / in    | 375 / 14.76                  | 390 (15.35) | 435 / 17.13   | 435 / 17.13   | 435 / 17.13         | 460 / 18.11        | 510 / 20.08         |
|                          | Width         | mm / in    | 895 / 35.24                  | 875 (34.45) | 1,265 / 49.80 | 1,265 / 49.80 | 1,390 / 54.72       | 1,450 / 57.09      | 1,450 / 57.09       |
|                          | Depth         | mm / in    | 520 / 20.47                  | 520 (20.47) | 655 / 25.79   | 705 / 27.76   | 745 / 29.33         | 795 / 31.3         | 795 / 31.3          |
| Packing Dimension        | Height        | mm / in    | 450 / 17.72                  | 440 (17.32) | 610 / 24.02   | 610 / 24.02   | 573 / 22.56         | 640 / 25.20        | 690 / 27.17         |
|                          | Width         | mm / in    | 990 / 38.98                  | 930 (36.61) | 1,350 / 53.15 | 1,340 / 52.76 | 1,430 / 56.30       | 1,580 / 62.2       | 1,580 / 62.2        |
|                          | Depth         | mm / in    | 600 / 23.62                  | 545 (21.46) | 740 / 29.13   | 790 / 31.10   | 790 / 31.10         | 850 / 33.46        | 850 / 33.46         |
| Unit Weight              |               | kg/lb      | 56 / 124                     | 60 / 2.36   | 101 / 223     | 103 / 227     | 125 / 276           | 155 / 342          | 161 / 355           |
| Refrigerant Type         |               |            | R410A                        |             |               |               |                     |                    |                     |
| Refrigerant Charge       |               | kg/lb      | 0.74 / 1.63                  | 0.72 / 1.59 | 1.35 / 2.98   | 1.46 / 3.22   | 0.95 x 2 / 2.09 x 2 | 1.3 x 2 / 2.87 x 2 | 1.55 x 2 / 3.42 x 2 |

### Notes:

1. All specification are subjected to change by the manufacturer without prior notice.
2. Nominal cooling capacity are based on the condition below:

|                                    |                   |
|------------------------------------|-------------------|
| Indoor temperature                 | 27°C DB / 19°C WB |
| Condenser inlet water temperature  | 30°C              |
| Condenser outlet water temperature | 35°C              |

3. Sound pressure level is measured from 1.4m below the unit.

# Specifications

## A5WH 060D - A5WH 150D (Packaged Horizontal Type)

| Model                    |               |            | A5WH 060D                    | A5WH 070D     | A5WH 080D      | A5WH 100D          | A5WH 125D          | A5WH 150D          |              |
|--------------------------|---------------|------------|------------------------------|---------------|----------------|--------------------|--------------------|--------------------|--------------|
| Nominal Cooling Capacity |               | BTU/h      | 54,600                       | 64,800        | 85,300         | 100,700            | 114,300            | 128,000            |              |
|                          |               | W          | 16,000                       | 19,000        | 25,000         | 29,500             | 33,500             | 37,500             |              |
| Nominal Input Power      |               | W          | 3,300                        | 4,900         | 5,600          | 6,300              | 8,500              | 9,450              |              |
| Nominal Running Current  |               | A          | 5.91                         | 8.63          | 11.45          | 13.68              | 15.89              | 17.78              |              |
| EER                      |               | BTU/h/W    | 16.55                        | 13.22         | 15.23          | 15.98              | 13.45              | 13.54              |              |
|                          |               | W/W        | 4.85                         | 3.88          | 4.46           | 4.68               | 3.94               | 3.97               |              |
| Expansion Device         |               |            | CAPILLARY TUBE               |               |                |                    |                    |                    |              |
| Power Source             |               | V/Ph/Hz    | 380 - 415 / 3 / 50           |               |                |                    |                    |                    |              |
| Control                  | Air Discharge |            | DUCTED                       |               |                |                    |                    |                    |              |
|                          | Operation     |            | WIRED OR WIRELESS (OPTIONAL) |               |                |                    |                    |                    |              |
| Air Flow                 |               | m³/h / CFM | 2,800 / 1,648                | 3,400 / 2,001 | 5,000 / 2,943  | 6,000 / 3,531      | 7,000 / 4,120      | 8,000 / 4,709      |              |
| External Static Pressure |               | Pa / in.wg | 80 / 0.32                    | 80 / 0.32     | 80 / 0.32      | 100 / 0.4          | 100 / 0.4          | 150 / 0.6          |              |
| Sound Pressure Level     |               | dBA        | 49                           | 54            | 55             | 59                 | 59                 | 60                 |              |
| Condensate Drain Size    |               | mm         | 20                           | 20            | 34             | 34                 | 34                 | 34                 |              |
| Water Pipe Connection    | Type          |            | BSP - MALE                   |               |                |                    |                    |                    | BSP - FEMALE |
|                          | Size          | mm / in    | 19.05 / 3/4"                 | 25.4 / 1"     | 31.75 / 1-1/4" |                    |                    |                    |              |
| Condenser                |               | Type       | TUBE IN TUBE                 |               |                |                    |                    |                    |              |
| Nominal Water Flow Rate  |               | l/s (m³/h) | 0.92 (3.3)                   | 1.17 (4.22)   | 1.45 (5.23)    | 1.7 (6.12)         | 1.98 (7.11)        | 2.16 (7.78)        |              |
| Water Pressure Drop      |               | kPa        | 60                           | 61            | 73             | 45                 | 55                 | 65                 |              |
| Unit Dimension           | Height        | mm / in    | 520 / 20.47                  | 520 / 20.47   | 660 / 25.98    | 708 / 27.87        | 708 / 27.87        | 736 / 28.98        |              |
|                          | Width         | mm / in    | 1,580 / 62.20                | 1,670 / 65.75 | 1,756 / 69.13  | 1,970 / 77.56      | 1,970 / 77.56      | 2,226 / 87.64      |              |
|                          | Depth         | mm / in    | 850 / 33.46                  | 855 / 33.66   | 1,000 / 39.37  | 1,150 / 45.28      | 1,150 / 45.28      | 1,200 / 47.24      |              |
| Packing Dimension        | Height        | mm / in    | 680 / 26.77                  | 680 / 26.77   | 820 / 32.28    | 860 / 33.86        | 860 / 33.86        | 900 / 35.43        |              |
|                          | Width         | mm / in    | 1,636 / 64.41                | 1,750 / 68.90 | 1,820 / 71.65  | 2,020 / 79.53      | 2,020 / 79.53      | 2,315 / 91.14      |              |
|                          | Depth         | mm / in    | 890 / 35.04                  | 880 / 34.65   | 1,010 / 39.76  | 1,210 / 47.64      | 1,210 / 47.64      | 1,220 / 48.03      |              |
| Unit Weight              |               | kg/lb      | 198 / 437                    | 208 / 459     | 245 / 540      | 365 / 805          | 375 / 827          | 450 / 992          |              |
| Refrigerant Type         |               |            | R410A                        |               |                |                    |                    |                    |              |
| Refrigerant Charge       |               | kg/lb      | 3.5 / 7.72                   | 2.8 / 6.17    | 3.5 / 7.72     | 3.2 x 2 / 7.05 x 2 | 3.0 x 2 / 6.61 x 2 | 3.7 x 2 / 8.16 x 2 |              |

### Notes:

1. All specification are subjected to change by the manufacturer without prior notice.
2. Nominal cooling capacity are based on the condition below:

|                                    |                   |
|------------------------------------|-------------------|
| Indoor temperature                 | 27°C DB / 19°C WB |
| Condenser inlet water temperature  | 30°C              |
| Condenser outlet water temperature | 35°C              |

3. Sound pressure level is measured from 1.4m below the unit.

# Water Cooled Packaged (Floor Mounted) Product Series - A5WCP

**Model:**

A5WCP18-210BP  
A5WCP18-75BP(P)

**Nominal Cooling Capacity:**

56,400 BTU/h - 699,500 BTU/h  
56,400 BTU/h - 247,400 BTU/h

**Refrigerant:**

R410A

**Model:**

A5WCP 060A(P) - 940A

**Nominal Cooling Capacity:**

57,700 BTU/h - 931,400 BTU/h

**Refrigerant:**

R410A

Acson floor mounted water cooled packaged is similar to its smaller counterpart, having multiple compressors with independent circuits. It is further enhanced by having a belt-driven system and plenum option. It also uses shell and tube to give a better performance compared to the horizontal unit.

## Features

### Free-Blow Air Conditioning Systems

An optional plenum is available for models A5WCP18BP(P) to A5WCP75BP(P) for free-blow application for all models.

### Anti-Corrosion Unit Casing

The unit is constructed of an electro-galvanized steel body with epoxy polyester powder coating. Hence, the unit is suitable for both commercial and industrial application.

### High Efficiency Hermetic Scroll Compressor

- Quiet Operation
- Excellent reliability with 70% fewer moving parts than comparably sized reciprocating compressors.
- Greater capability at handling liquid and debris in the system
- High efficiency performance.

### Enhanced Copper Tubes Condenser

Extra-high efficiency is attained by special designed shell-and-tube condenser with "T" groove copper tube surfaces for superior refrigerant-water heat transfer.

# Specifications

## A5WCP 18BP(P) - A5WCP 85BP

| Models                          |               |         | A5WCP18BP(P)              | A5WCP30BP(P)              | A5WCP35BP(P)              | A5WCP55BP(P)              | A5WCP75BP(P)               | A5WCP85BP      |
|---------------------------------|---------------|---------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|----------------|
| Nominal Cooling Capacity        | BTU/h         |         | 56,400                    | 85,400                    | 109,200                   | 174,100                   | 247,400                    | 290,100        |
|                                 | W             |         | 16,500                    | 25,000                    | 32,000                    | 51,000                    | 72,500                     | 85,000         |
| Nominal Input Power             | W             |         | 4160                      | 7100                      | 9000                      | 13000                     | 20300                      | 22500          |
| Nominal Running Current         | A             |         | 9.2                       | 15.5                      | 17.5                      | 24.5                      | 36.5                       | 42             |
| EER                             | BTU/h/W       |         | 13.56                     | 12.03                     | 12.13                     | 13.39                     | 12.19                      | 12.89          |
|                                 | W/W           |         | 3.97                      | 3.52                      | 3.56                      | 3.92                      | 3.57                       | 3.78           |
| Expansion Device                |               |         | CAPILLARY TUBE            |                           |                           |                           |                            |                |
| Power Source                    |               | V/Ph/Hz | 380 - 415 / 3 / 50        |                           |                           |                           |                            |                |
| Control                         | Air Discharge |         | DUCTED                    |                           |                           |                           |                            |                |
|                                 | Operation     |         | WIRED OR WIRELESS         |                           |                           |                           |                            |                |
| Air Flow                        | m³/h / CFM    |         | 2880 / 1695               | 4200 / 2472               | 6800 / 4002               | 8000 / 4709               | 11500 / 6769               | 14000 / 8240   |
| External Static Pressure        | Pa / in.wg    |         | 80(10) / 0.3 (0.04)       | 100(10) / 0.4 (0.04)      | 100(10) / 0.4 (0.04)      | 150(10) / 0.6 (0.04)      | 150(10) / 0.6 (0.04)       | 200            |
| Sound Pressure Level            | dBa           |         | 52                        | 63                        | 65                        | 67                        | 70                         | 72             |
| Condensate Drain Size           | mm / in       |         | 25.4 / 1"                 |                           |                           |                           |                            |                |
| Water Pipe Connection           | Type          |         | FEMALE THREAD             |                           |                           |                           |                            |                |
|                                 | Size          | mm / in | 31.75 / 1-1/4             | 31.75 / 1-1/4             | 31.75 / 1-1/4             | 50.80 / 2                 | 50.80 / 2                  | 50.80 / 2      |
| Condenser                       | Type          |         | TUBE IN TUBE              |                           |                           |                           |                            | SHELL AND TUBE |
| Nominal Water Flow Rate         | l/s (m³/h)    |         | 0.99 / 3.55               | 1.49 / 5.38               | 1.91 / 6.88               | 3.05 / 10.97              | 4.33 / 15.59               | 5.08 / 18.28   |
| Water Pressure Drop             | kPa           |         | 53                        | 32                        | 60                        | 60                        | 64                         | 25             |
| Unit Dimension (without plenum) | Height        | mm / in | 1600(1880) / 62.9 (74.02) | 1600(1880) / 62.9 (74.02) | 1880(2150) / 74.02(84.65) | 1900(2160) / 74.8(85.04)  | 1985(2350) / 78.15(92.52)  | 1985 / 78.15   |
|                                 | Width         | mm / in | 1175 / 46.26              | 1175 / 46.26              | 1175 / 46.26              | 1585 / 62.4               | 1905 / 75                  | 2000 / 78.74   |
|                                 | Depth         | mm / in | 660 / 25.98               | 660 / 25.98               | 660 / 25.98               | 730 / 28.74               | 830 / 32.68                | 1055 / 41.54   |
| Packing Dimension               | Height        | mm / in | 1730(2010) / 68.11(79.13) | 1730(2010) / 68.11(79.13) | 2010(2280) / 79.13(89.76) | 2030(2290) / 79.92(90.16) | 2110(2550) / 83.07(100.39) | 2110 / 83.07   |
|                                 | Width         | mm / in | 1258 / 49.53              | 1258 / 49.53              | 1258 / 49.53              | 1670 / 65.75              | 1990 / 78.35               | 2120 / 83.46   |
|                                 | Depth         | mm / in | 720 / 28.34               | 720 / 28.34               | 720 / 28.34               | 780 / 30.71               | 880 / 34.65                | 1150 / 45.28   |
| Unit Weight                     | kg/lb         |         | 205(220) / 452(485)       | 260(275) / 573(606)       | 310(325) / 683(717)       | 440(470) / 970(1036)      | 560(600) / 1235(1323)      | 770 / 1698     |
| Unit Gross Weight               | kg/lb         |         | 225(240) / 496(529)       | 285(295) / 628(650)       | 330(345) / 728(761)       | 465(495) / 1025(1091)     | 595(635) / 1312(1400)      | 810 / 1786     |
| Refrigerant Type                |               |         | R410A                     |                           |                           |                           |                            |                |
| Refrigerant Charge              | kg/lb         |         | 1.7 / 3.75                | 2.4 / 5.29                | 2.7 / 5.95                | 4.6 / 10.14               | 6.4 / 14.11                | 9.3 / 20.50    |

### Notes:

1. All specification are subjected to change by the manufacturer without prior notice.
2. Nominal cooling capacity are based on the condition below:

|                                   |                   |
|-----------------------------------|-------------------|
| Indoor temperature                | 27°C DB / 19°C WB |
| Condenser inlet water temperature | 30°C              |

3. Sound pressure level is measured from 1m in front & below the unit.

# Specifications

## A5WCP 100BP(P) - A5WCP 210BP

| Models                          |               |            | A5WCP100BP         | A5WCP120BP    | A5WCP135BP    | A5WCP150BP    | A5WCP170BP    | A5WCP190BP    | A5WCP210BP    |
|---------------------------------|---------------|------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Nominal Cooling Capacity        | BTU/h         |            | 324,200            | 399,300       | 460,700       | 528,900       | 573,300       | 641,500       | 699,500       |
|                                 | W             |            | 95,000             | 117,000       | 135,000       | 155,000       | 168,000       | 188,000       | 205,000       |
| Nominal Input Power             | W             |            | 24500              | 27500         | 33500         | 38500         | 42500         | 47000         | 53000         |
| Nominal Running Current         | A             |            | 50                 | 54            | 66            | 73            | 81            | 92            | 103           |
| EER                             | BTU/h/W       |            | 13.23              | 14.52         | 13.75         | 13.74         | 13.49         | 13.65         | 13.20         |
|                                 | W/W           |            | 3.88               | 4.25          | 4.03          | 4.03          | 3.95          | 4.00          | 3.87          |
| Expansion Device                |               |            | CAPILLARY TUBE     |               |               |               |               |               |               |
| Power Source                    |               | V/Ph/Hz    | 380 - 415 / 3 / 50 |               |               |               |               |               |               |
| Control                         | Air Discharge |            | DUCTED             |               |               |               |               |               |               |
|                                 | Operation     |            | WIRED OR WIRELESS  |               |               |               |               |               |               |
| Air Flow                        |               | m³/h / CFM | 17000 / 10006      | 19800 / 11654 | 21500 / 12654 | 24600 / 14479 | 26000 / 15303 | 28800 / 16951 | 33000 / 19423 |
| External Static Pressure        |               | Pa / in.wg | 250 / 1            | 250 / 1       | 300 / 1.2     | 300 / 1.2     | 350 / 1.4     | 350 / 1.4     | 350 / 1.4     |
| Sound Pressure Level            |               | dBa        | 74                 | 75            | 76            | 77            | 77            | 78            | 79            |
| Condensate Drain Size           |               | mm / in    | 25.4 / 1"          |               |               |               |               |               |               |
| Water Pipe Connection           | Type          |            | FEMALE THREAD      |               |               |               |               |               |               |
|                                 | Size          | mm / in    | 50.80 / Rc 2       | 50.80 / Rc 2  | 63.5 / 2-1/2  | 63.5 / 2-1/2  | 76.2 / 3      | 76.2 / 3      | 76.2 / 3      |
| Condenser                       | Type          |            | SHELL AND TUBE     |               |               |               |               |               |               |
| Nominal Water Flow Rate         |               | l/s (m³/h) | 5.68 / 20.43       | 6.99 / 25.16  | 8.06 / 29.03  | 9.26 / 33.33  | 10.03 / 36.12 | 11.23 / 40.42 | 12.24 / 44.08 |
| Water Pressure Drop             |               | kPa        | 28                 | 52            | 48            | 54            | 52            | 50            | 57            |
| Unit Dimension (without plenum) | Height        | mm / in    | 1985 / 78.15       | 1985 / 78.15  | 1985 / 78.15  | 1985 / 78.15  | 2060 / 81.10  | 2060 / 81.10  | 2060 / 81.10  |
|                                 | Width         | mm / in    | 2000 / 78.74       | 2180 / 85.83  | 2380 / 93.7   | 2380 / 93.7   | 2380 / 93.7   | 2620 / 103.15 | 2860 / 112.60 |
|                                 | Depth         | mm / in    | 1055 / 41.54       | 1055 / 41.54  | 1055 / 41.54  | 1215 / 47.83  | 1215 / 47.83  | 1215 / 47.83  | 1215 / 47.83  |
| Packing Dimension               | Height        | mm / in    | 2110 / 83.07       | 2110 / 83.07  | 2110 / 83.07  | 2110 / 83.07  | 2190 / 86.22  | 2190 / 86.22  | 2190 / 86.22  |
|                                 | Width         | mm / in    | 2120 / 83.46       | 2290 / 90.16  | 2500 / 98.43  | 2490 / 98.03  | 2490 / 98.03  | 2660 / 104.73 | 2900 / 114.17 |
|                                 | Depth         | mm / in    | 1150 / 45.28       | 1200 / 47.24  | 1150 / 45.28  | 1290 / 50.79  | 1290 / 50.79  | 1290 / 50.79  | 1290 / 50.79  |
| Unit Weight                     |               | kg/lb      | 805 / 1775         | 835 / 1841    | 925 / 2039    | 1005 / 2216   | 1155 / 2546   | 1240 / 2734   | 1395 / 3075   |
| Unit Gross Weight               |               | kg/lb      | 810 / 1786         | 850 / 1874    | 880 / 1940    | 1050 / 2315   | 1200 / 2646   | 1290 / 2844   | 1455 / 3208   |
| Refrigerant Type                |               |            | R410A              |               |               |               |               |               |               |
| Refrigerant Charge              |               | kg/lb      | 10.9 / 24.03       | 11 / 24.25    | 13.5 / 29.76  | 14.4 / 31.75  | 16.5 / 36.38  | 20.4 / 44.97  | 29.4 / 64.82  |

### Notes:

1. All specification are subjected to change by the manufacturer without prior notice.
2. Nominal cooling capacity are based on the condition below:

|                                   |                   |
|-----------------------------------|-------------------|
| Indoor temperature                | 27°C DB / 19°C WB |
| Condenser inlet water temperature | 30°C              |

3. Sound pressure level is measured from 1m in front & below the unit.

# Double Skin Water Cooled Packaged

(A5WCP-A)

The vertical double skin water cooled packaged air conditioner is the alternatives addressing the energy efficiency, indoor air quality and sound concerns for commercial, factory and supermarket applications.

## Features:

### 1. Double Protection

All the framework is insulated with 1 inch double skin Polyurethane (PU) insulation panel and all frames are insulated with Polyethylene (PE) that is chemical resistant. PE is a resilient type closed-cell foam that ideal for shock absorbing, vibration dampening, minimize heat loss and avoid condensation to take place. Adding double skin PU insulation panel accomplishes few benefits:

- Excellent Thermal Barrier (prevent heat lost and sweating).
- Condensation Control
- Superior Silent Operation  
(lined with 1 inch sound-proof insulation to avoid transmission of vibration)
- Air Tightness

*\*50 mm double skin PU insulation panel is available upon request.*

### 2. Control

R410A water cooled packaged controller with Direct On Line (DOL) motor starter have built-in RS485 port. (Modbus BMS control)

### 3. Excellent filtration system

Rather than using conventional saranet filter, Acson double skin water cooled packaged is equipped with either R29 or G3 filter.

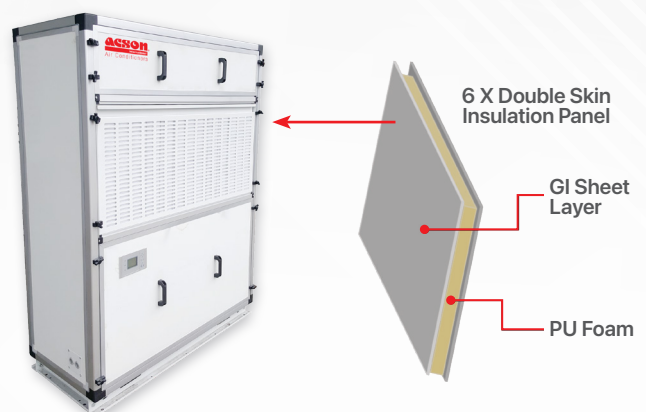


\*Sample

### 4. Flexible Drive Package

R410A water cooled packaged use belt-driven system.

Hence, it is possible to regulate the external static pressure and air flow.



# Specifications

## A5WCP0060A(P) - A5WCP0320A

| Model                                |               |            | A5WCP0060A(P)                 | A5WCP0090A(P)                 | A5WCP0140A(P)                 | A5WCP0180A(P)                  | A5WCP0240A            | A5WCP0280A        | A5WCP0320A           |
|--------------------------------------|---------------|------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------|-------------------|----------------------|
| Nominal Cooling Capacity             |               | BTU/hr     | 57,700                        | 87,200                        | 132,500                       | 173,900                        | 231,900               | 284,700           | 314,000              |
|                                      |               | W          | 16,900                        | 25,600                        | 38,800                        | 51,000                         | 68,000                | 83,400            | 92,000               |
| Nominal Input Power                  |               | W          | 4,550                         | 6,940                         | 10,410                        | 13,350                         | 18,160                | 19,950            | 25,780               |
| Nominal Running Current              |               | A          | 9.72                          | 14.37                         | 21.9                          | 26.81                          | 35.67                 | 41.78             | 47.98                |
| EER                                  |               | BTU/h/W    | 12.68                         | 12.56                         | 12.73                         | 13.03                          | 12.77                 | 14.27             | 12.18                |
|                                      |               | W/W        | 3.71                          | 3.69                          | 3.73                          | 3.82                           | 3.74                  | 4.18              | 3.57                 |
| Expansion Device                     |               |            | TXV                           |                               |                               |                                |                       |                   |                      |
| Power Source                         |               | V/Ph/Hz    | 380 - 415 / 3 / 50            |                               |                               |                                |                       |                   |                      |
| Control                              | Air Discharge |            | DUCTED                        |                               |                               |                                |                       |                   |                      |
|                                      | Operation     |            | WIRED                         |                               |                               |                                |                       |                   |                      |
| Air Flow                             |               | m³/h / CFM | 3,058 / 1,800                 | 4,587 / 2,700                 | 7,646 / 4,500                 | 9,175 / 5,400                  | 11,893 / 7,000        | 15,121 / 8,900    | 18,689 / 11,000      |
| External Static Pressure With Filter |               | Pa / in wg | 250 / 1 (0)                   |                               |                               |                                | 250 / 1               |                   |                      |
| Sound Pressure Level                 |               | dBA        | 70                            | 71                            | 71                            | 73                             | 67                    | 68                | 70                   |
| Nominal Water Flow Rate              |               | l/s (m³/h) | 1 (3.6)                       | 1.39 (5.0)                    | 2.24 (8.05)                   | 2.99 (10.76)                   | 3.78 (13.62)          | 4.41 (15.89)      | 5.18 (18.67)         |
| Water Pressure Drop                  |               | kPa        | 10                            | 16                            | 12                            | 16                             | 13                    | 13                | 16                   |
| Water Pipe Connection                | Type          |            | BSP - FEMALE                  |                               |                               |                                |                       |                   |                      |
|                                      | Size          | mm / in    | 31.75 / 1-1/4" (RIGHT)        |                               | 38.1 / 1-1/2" (RIGHT)         |                                | 63.5 / 2-1/2" (RIGHT) | 76.2 / 3" (RIGHT) | 63.5 / 2-1/2" (LEFT) |
| Condenser                            |               | Type       | TUBE IN TUBE                  |                               |                               |                                | SHELL AND TUBE        |                   |                      |
| Condensate Drain Size                | Type          |            | BSP - MALE                    |                               |                               |                                |                       |                   |                      |
|                                      | Size          | mm / in    | 31.75 / 1-1/4" (Right Side)   |                               | 31.75 / 1-1/4" (Both Side)    |                                |                       |                   | 1-1/4" (Both Side)   |
| Unit Dimension                       | Height        | mm / in    | 1,755 / 69.09 (2,055 / 80.91) | 1,814 / 71.42 (2,114 / 83.23) | 2,153 / 84.76 (2,453 / 96.57) | 2,370 / 93.31 (2,670 / 105.12) | 1,768 / 69.06         | 1,921 / 75.63     | 1,798 / 70.79        |
|                                      | Width         | mm / in    | 1,068 / 42.04                 | 1,410 / 55.51                 | 1,486 / 58.50                 | 1,486 / 58.50                  | 1,576 / 62.04         | 1,576 / 62.04     | 1,859 / 73.19        |
|                                      | Depth         | mm / in    | 570 / 22.44                   | 570 / 22.44                   | 765 / 301.34                  | 765 / 301.34                   | 1,176 / 46.30         | 1,176 / 46.30     | 1,282 / 50.47        |
| Shipping Weight                      |               | kg / lb    | 160 / 353 (175 / 386)         | 241 / 531 (261 / 575)         | 416 / 917 (441 / 972)         | 470 / 1,036 (495 / 1,091)      | 558 / 1,230           | 658 / 1,451       | 728 / 1,605          |
| Operating Weight                     |               | kg / lb    | 162 / 357 (177 / 390)         | 245 / 540 (265 / 584)         | 423 / 933 (448 / 988)         | 476 / 1,049 (501 / 1,105)      | 566 / 1,248           | 667 / 1,470       | 736 / 1,623          |
| Refrigerant Type                     |               |            | R410A                         |                               |                               |                                |                       |                   |                      |
| Refrigerant Charge                   |               | kg / lb    | 2 / 4.41                      | 2.8 / 6.17                    | 5.1 / 11.24                   | 6.0 / 13.23                    | 13.3 / 29.33          | 14.3 / 31.53      | 9.4 x 2 / 20.7 x 2   |

### Notes:

1. All specification are subjected to change by the manufacturer without prior notice.
2. Nominal cooling capacity are based on the condition below:
3. The pipping orrientation is viewed from front panel.

|                                    |                       |
|------------------------------------|-----------------------|
| Indoor temperature                 | 26.7°C DB / 19.4°C WB |
| Condenser inlet water temperature  | 30°C                  |
| Condenser outlet water temperature | 35°C                  |

4. Sound Pressure Level is measured at open field and 1m from service (front) panel and ground.
5. Unit in the parentheses are applicable for the units with plenum.

# Specifications

## A5WCP0360A - A5WCP0940A

| Model                                |               |            | A5WCP0360A           | A5WCP0400A       | A5WCP0520A       | A5WCP0570A        | A5WCP0710A         | A5WCP0870A          | A5WCP0940A         |
|--------------------------------------|---------------|------------|----------------------|------------------|------------------|-------------------|--------------------|---------------------|--------------------|
| Nominal Cooling Capacity             |               | BTU/hr     | 356,900              | 400,500          | 518,900          | 568,300           | 700,700            | 862,200             | 931,400            |
|                                      |               | W          | 104,600              | 117,400          | 152,100          | 166,600           | 205,400            | 252,700             | 273,000            |
| Nominal Input Power                  |               | W          | 29,910               | 33,140           | 43,620           | 43,980            | 57,600             | 70,800              | 76,100             |
| Nominal Running Current              |               | A          | 62.42                | 68.40            | 83.13            | 82.96             | 103.7              | 134.9               | 141.5              |
| EER                                  |               | BTU/h/W    | 11.93                | 12.09            | 11.90            | 12.92             | 12.16              | 12.18               | 12.24              |
|                                      |               | W/W        | 3.50                 | 3.54             | 3.49             | 3.79              | 3.57               | 3.57                | 3.59               |
| Expansion Device                     |               |            | TXV                  |                  |                  |                   |                    |                     |                    |
| Power Source                         |               | V/Ph/Hz    | 380 - 415 / 3 / 50   |                  |                  |                   |                    |                     |                    |
| Control                              | Air Discharge |            | DUCTED               |                  |                  |                   |                    |                     |                    |
|                                      | Operation     |            | WIRED                |                  |                  |                   |                    |                     |                    |
| Air Flow                             |               | m³/h / CFM | 20,048 / 11,800      | 21,747 / 12,800  | 24,636 / 14,500  | 26,335 / 15,500   | 36,189 / 21,300    | 45,364 / 26,700     | 48252 / 28,400     |
| External Static Pressure With Filter |               | Pa / in wg | 250 / 1              |                  |                  |                   |                    |                     |                    |
| Sound Pressure Level                 |               | dBA        | 68                   | 79               | 80               | 77                | 79                 | 80                  | 84                 |
| Nominal Water Flow Rate              |               | l/s (m³/h) | 5.66 (20.37)         | 6.78 (24.40)     | 8.50 (30.60)     | 9.31 (33.50)      | 11.36 (40.9)       | 13.86 (49.90)       | 15.14 (54.5)       |
| Water Pressure Drop                  |               | kPa        | 23                   | 12               | 12               | 34                | 13                 | 15                  | 16                 |
| Water Pipe Connection                | Type          |            | BSP - FEMALE         |                  |                  |                   |                    |                     |                    |
|                                      | Size          | mm / in    | 63.5 / 2-1/2" (LEFT) |                  |                  |                   |                    |                     |                    |
| Condenser                            |               | Type       | SHELL AND TUBE       | TUBE IN TUBE     |                  | SHELL AND TUBE    | TUBE IN TUBE       |                     |                    |
| Condensate Drain Size                | Type          |            | BSP - MALE           |                  |                  |                   |                    |                     |                    |
|                                      | Size          | mm / in    | 1-1/4" (Both Side)   |                  |                  |                   |                    |                     |                    |
| Unit Dimension                       | Height        | mm / in    | 2,204 / 86.77        | 1,907 / 75.09    | 1,907 / 75.09    | 2,096 / 82.52     | 1927 / 75.87       | 2118 / 83.39        | 2133 / 83.98       |
|                                      | Width         | mm / in    | 1,859 / 73.19        | 2691 / 105.95    | 2691 / 105.95    | 2691 / 105.95     | 3281 / 129.17      | 3281 / 129.17       | 3391 / 133.50      |
|                                      | Depth         | mm / in    | 1,282 / 50.47        | 1583 / 62.32     | 1583 / 62.32     | 1583 / 62.32      | 1584 / 62.36       | 1584 / 62.36        | 1584 / 62.36       |
| Shipping Weight                      |               | kg / lb    | 857 / 1,889          | 1,201 / 2,648    | 1,269 / 2,797    | 1,300 / 2,866     | 1,608 / 3,545      | 1,971 / 4,345       | 2,145 / 4,729      |
| Operating Weight                     |               | kg / lb    | 866 / 1,909          | 1,218 / 2,685    | 1,289 / 2,842    | 1,314 / 2,897     | 1,633 / 3,600      | 2,001 / 4,411       | 2,178 / 4,802      |
| Refrigerant Type                     |               |            | R410A                |                  |                  |                   |                    |                     |                    |
| Refrigerant Charge                   |               | kg / lb    | 9.5 x 2 / 20.9 x 2   | 6 x 3 / 13.2 x 2 | 7 x 3 / 15.4 x 3 | 17 x 2 / 37.5 x 2 | 9.4 x 3 / 20.7 x 3 | 11.5 x 3 / 25.4 x 3 | 9.4 x 4 / 20.7 x 4 |

### Notes:

1. All specification are subjected to change by the manufacturer without prior notice.
2. Nominal cooling capacity are based on the condition below:
3. The pipping orrientation is viewed from front panel.

|                                    |                       |
|------------------------------------|-----------------------|
| Indoor temperature                 | 26.7°C DB / 19.4°C WB |
| Condenser inlet water temperature  | 30°C                  |
| Condenser outlet water temperature | 35°C                  |

4. Sound Pressure Level is measured at open field and 1m from service (front) panel and ground.
5. Unit in the parentheses are applicable for the units with plenum.



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