

| Indoor model                     |                                |               | MSAGAU-09HRFNX-QRD0GW                    | MSAGBU-09HRFN8-QRD1GW(GA)   | MSAGBU-12HRFNX-QRD0GW       |
|----------------------------------|--------------------------------|---------------|------------------------------------------|-----------------------------|-----------------------------|
| Power supply (Indoor )           |                                | V- Ph-Hz      | 220~240-1-50                             | 220~240-1-50                | 220~240-1-50                |
| Cooling                          | Capacity                       | Btu/h         | 9000                                     | 9000                        | 12000                       |
|                                  | Input                          | W             | 21                                       | 23                          | 23                          |
|                                  | Current                        | A             | 0.09                                     | 0.10                        | 0.10                        |
| Heating                          | Capacity                       | Btu/h         | 10000                                    | 10000                       | 13000                       |
|                                  | Input                          | W             | 21                                       | 23                          | 23                          |
|                                  | current                        | A             | 0.09                                     | 0.10                        | 0.10                        |
| Indoor fan motor                 | Model                          |               | ZKFP-20-8-6-7                            | ZKFP-13-8-4                 | ZKFP-13-8-4                 |
|                                  | Input                          | W             | 50                                       | 18.2                        | 18.2                        |
|                                  | Capacitor                      | uF            | /                                        | /                           | /                           |
|                                  | Speed(Hi/Mi/Lo)                | r/min         | 1050/700                                 | 1050/450                    | 1050/700                    |
| Indoor coil                      | a.Number of rows               |               | 2                                        | 2                           | 2                           |
|                                  | b.Tube pitch(a)x row pitch(b)  | mm            | 21x13.37                                 | 21x13.37                    | 21x13.37                    |
|                                  | c.Fin spacing                  | mm            | 1.3                                      | 1.3                         | 1.3                         |
|                                  | d.Fin type (code)              |               | Hydrophilic aluminum                     | Hydrophilic aluminum        | Hydrophilic aluminum        |
|                                  | e.Tube outside dia.and type    | mm            | Φ7,Inner groove tube                     | Φ7,Inner groove tube        | Φ7,Inner groove tube        |
|                                  | f.Coil length x height x width | mm            | 525x84x13.37+525x105x26.74+525x105x26.74 | 605x210x26.74+605x105x26.74 | 605x210x26.74+605x105x26.74 |
|                                  | g.Number of circuits           |               | 2                                        | 2                           | 2                           |
| Indoor air flow (Hi/Mi/Lo)       |                                | m3/h          | 460/330/260                              | 510/360/300                 | 530/400/350                 |
| Indoor sound pressure level (Hi) |                                | dB(A)         | 37.0/32.0/22.0                           | 37.0/22                     | 37.0/32.0/22.0              |
| Indoor sound power level (Hi)    |                                | dB(A)         | 54                                       | 55                          | 55                          |
| Indoor unit                      | Dimension(W*D*H)               | mm            | 726x210x291                              | 835x295x208                 | 835x208x295                 |
|                                  | Packing (W*D*H)                | mm            | 790x270x375                              | 905x355x290                 | 905x355x290                 |
|                                  | Net/Gross weight               | Kg            | 8.0/10.5                                 | 8.7/11.5                    | 8.7/11.5                    |
| Design pressure                  |                                | MPa           | 4.3/1.7                                  | 4.3/1.7                     | 4.3/1.7                     |
| Refrigerant piping               | Liquid side/ Gas side          | mm(inch)      | Φ6.35/Φ9.52(1/4"/3/8")                   | Φ6.35/Φ9.52(1/4"/3/8")      | Φ6.35/Φ9.52(1/4"/3/8")      |
| Controller                       |                                | Wired Control | Remote Control                           | Remote Control              | Remote Control              |
| Operation temperature            |                                | °C            | 16~30                                    | 16~30                       | 16~30                       |
| Room temperature                 | Cooling                        | °C            | 16~32                                    | 16~32                       | 16~32                       |
|                                  | Heating                        | °C            | 0~30                                     | 0~30                        | 0~30                        |

## Notes:

## 1) Capacities are based on the following conditions:

Cooling(T1): - Indoor Temperature 27°C(80.6°F) DB /19 °C(66.2°F) WB Heating: - Indoor Temperature 20°C(68°F) DB / 15°C(59°F) WB

-Outdoor Temperature 35 °C(95°F) DB /24 °C(75.2°F) WB

-Outdoor Temperature 7°C(44.6°F) DB / 6°C(42.8°F) WB

-Interconnecting Piping Length 5m

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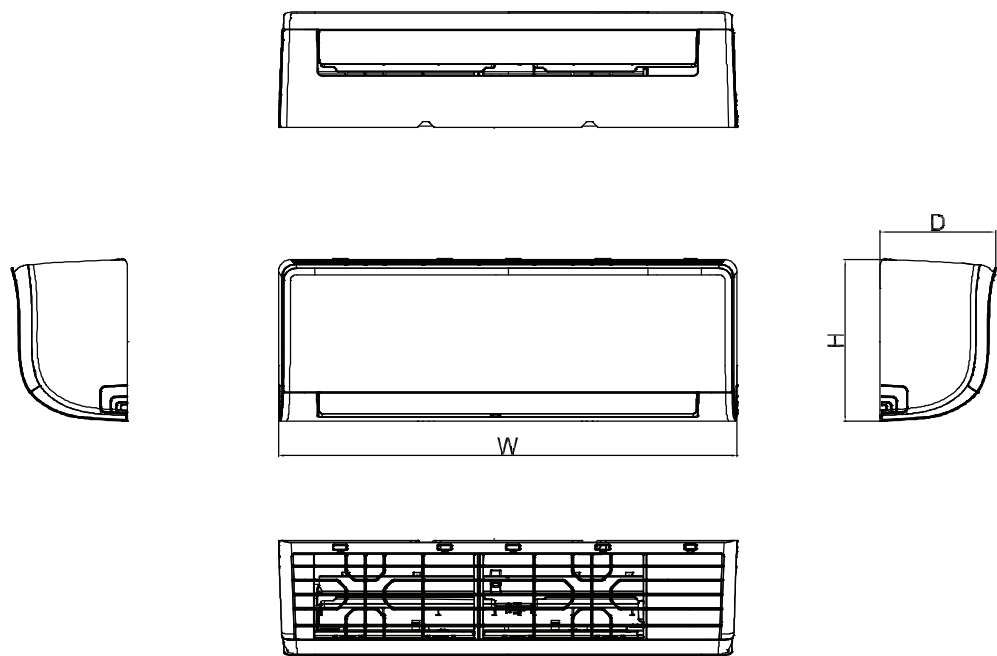
- Level Difference of Zero.

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## 2) Capacities are Net Capacities.

## 3) Due to our policy of innovation some specifications may be changed without notification.

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Specifications

| Model                                                                           | W(mm) | D(mm) | H(mm) |
|---------------------------------------------------------------------------------|-------|-------|-------|
| MSAGAU-09HRFNX-QRD0GW                                                           | 726   | 210   | 291   |
| MSAGBU-12HRFNX-QRD0GW<br>MSAGBU-09HRFN8-QRD1GW(GA)<br>MSAGBU-12HRFN8-QRD1GW(GA) | 835   | 208   | 295   |
| MSAGCU-18HRFNX-QRD0GW                                                           | 969   | 241   | 320   |
| MSAGDU-24HRFN8-QRD0GW                                                           | 1083  | 244   | 336   |