

# EHS Specification - Mono (A2W)



## Outdoor Unit (Mono)

- Mono unit itself supplies hot water without Hydro unit or refrigerant work

| Model                  |                           | RC090MHXEA           | RC120MHXEA      | RC140MHXEA      | RC160MHXEA      | RC120MHXGA       | RC140MHXGA      | RC160MHXGA      |               |        |
|------------------------|---------------------------|----------------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|---------------|--------|
| Mode                   |                           | Heat Pump (A2W Only) |                 |                 |                 |                  |                 |                 |               |        |
| Power Supply           | Φ, #, V, Hz               | 1,220-240,50         | 1,220-240,50    | 1,220-240,50    | 1,220-240,50    | 3, 4, 380-415,50 | 3, 380-415,50   | 3, 380-415,50   |               |        |
| Performance (A2W #1)   | Nominal Capacity *1)      | Heating              | kW              | 9,000           | 12,000          | 14,000           | 16,000          | 12,000          | 14,000        | 16,000 |
|                        |                           |                      | Btu/h           | 30,700          | 40,900          | 47,800           | 54,600          | 40,900          | 47,800        | 54,600 |
|                        | Cooling                   | kW                   | 10,000          | 13,500          | 16,000          | 17,000           | 13,500          | 16,000          | 17,000        |        |
|                        |                           | Btu/h                | 34,100          | 46,100          | 54,600          | 58,000           | 46,100          | 54,600          | 58,000        |        |
|                        | Nominal Power Input *1)   | Heating              | W               | 2,090           | 2,610           | 3,220            | 3,810           | 2,610           | 3,220         | 3,810  |
|                        |                           | Cooling              | W               | 2,860           | 4,070           | 5,390            | 5,860           | 3,910           | 5,260         | 5,710  |
|                        | Nominal Current Input *1) | Heating              | A               | 939             | 11,7            | 14,4             | 17,1            | 4,1             | 5,1           | 6,0    |
|                        |                           | Cooling              | A               | 13,5            | 17,7            | 23,2             | 25,5            | 8,1             | 8,2           | 9,0    |
|                        | COP(Heating) *1)          | W                    | 4,30            | 4,60            | 4,35            | 4,20             | 4,60            | 4,35            | 4,20          |        |
|                        | EER(Cooling) *1)          | W                    | 3,50            | 3,32            | 3,00            | 2,90             | 3,45            | 3,05            | 2,98          |        |
| ESEER*2)               | A                         | 5,60                 | 6,45            | 6,34            | 5,98            | 6,45             | 6,34            | 5,98            |               |        |
| Electric Specification | MCA                       | A                    | 22,0            | 28,0            | 30,0            | 32,0             | 10,0            | 11,0            | 12,0          |        |
|                        | MFA                       | A                    | 27,5            | 35,0            | 37,5            | 40,0             | 12,5            | 13,8            | 15,0          |        |
| Water Side             | Required Water Pressure   | bar                  | Max. 2.8        | Max. 2.8        | Max. 2.8        | Max. 2.8         | Max. 2.8        | Max. 2.8        |               |        |
|                        | Required Flow Rate        | LPM                  | Min. 16.0       | Min. 16.0       | Min. 16.0       | Min. 16.0        | Min. 16.0       | Min. 16.0       |               |        |
|                        | Piping Connections        | In/Out Φ, inch       | 1" (BSPP)       | 1" (BSPP)       | 1" (BSPP)       | 1" (BSPP)        | 1" (BSPP)       | 1" (BSPP)       |               |        |
| Refrigerant Side       | Compressor                | Type                 | Rotary Inverter | Rotary Inverter | Rotary Inverter | Rotary Inverter  | Rotary Inverter | Rotary Inverter |               |        |
|                        | Oil                       | Type                 | POE             | POE             | POE             | POE              | POE             | POE             |               |        |
|                        | Refrigerant               | Type                 | R410A           | R410A           | R410A           | R410A            | R410A           | R410A           |               |        |
| Base Heater            | Capacity                  | W                    | 150             | 150             | 150             | 150              | 150             | 150             |               |        |
|                        | Sound                     | Heating              | dB(A)           | 50              | 50              | 52               | 53              | 52              | 53            |        |
| Pressure *3)           |                           | Cooling              | dB(A)           | 51              | 51              | 53               | 54              | 53              | 54            |        |
| Sound Power            |                           | dB(A)                | 66              | 66              | 68              | 70               | 66              | 66              | 70            |        |
| External Dimension     | Weight                    | Net                  | kg              | 75              | 103             | 103              | 103             | 103             | 103           |        |
|                        |                           | Gross                | kg              | 83              | 113             | 113              | 113             | 113             | 113           |        |
|                        | Dimensions (WxHxD)        | Net                  | mm              | 940x998x330     | 940x1,420x330   | 940x1,420x330    | 940x1,420x330   | 940x1,420x330   | 940x1,420x330 |        |
| Gross                  |                           | mm                   | 995x1,096x426   | 995 x1,548x426  | 995 x1,548x426  | 995 x1,548x426   | 995 x1,548x426  | 995 x1,548x426  |               |        |
| Operating Range        | Ambient (A2W)             | Heating              | °C              | -20-35          | -20-35          | -20-35           | -20-35          | -20-35          | -20-35        |        |
|                        |                           | Cooling              | °C              | 10-46           | 10-46           | 10-46            | 10-46           | 10-46           | 10-46         |        |
|                        | Leaving Water             | DHW                  | °C              | -20-43          | -20-43          | -20-43           | -20-43          | -20-43          | -20-43        |        |
|                        |                           | Heating              | °C              | 25-55           | 25-55           | 25-55            | 25-55           | 25-55           | 25-55         |        |
|                        | Cooling                   | °C                   | 5-25            | 5-25            | 5-25            | 5-25             | 5-25            | 5-25            |               |        |

\*1)-2) A2W rating conditions in accordance with Eurovent Rating Standard for Liquid Chilling Packages 6/C/003-2008.

\*1) A2W Condition #1 : (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°CDB/6°CWB; (Cooling) Water In/Out 23°C/18°C, Outdoor Air 35°CDB.

\*2) A2W Condition for ESEER(Cooling) at Water Out 18°C.

\*3) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.