

# MONOBLOC GT R290



AW042MUGHA  
AW062MUGHA  
AW082MUGHA  
AW102MUGHA  
AW10NMUGHA



ATW-A03N  
(Must be ordered  
Separately)

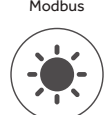
HW-WA101DBT

Our mono-bloc includes a water pump, expansion vessel, and flow meter all inside the unit.

The monobloc unit has a wiring centre mounted inside the house to make wiring simpler. It connects to the outdoor unit with a 2 core cable.

| Product Data                                          |                  |        | Monobloc<br>4kW-1Ph                                          | Monobloc<br>6kW-1Ph | Monobloc<br>8kW-1Ph | Monobloc<br>10kW-1Ph | Monobloc<br>10kW-3Ph |
|-------------------------------------------------------|------------------|--------|--------------------------------------------------------------|---------------------|---------------------|----------------------|----------------------|
| Model                                                 |                  |        | AW042MUGHA                                                   | AW062MUGHA          | AW082MUGHA          | AW102MUGHA           | AW10NMUGHA           |
| Heating<br>(LWT 35°C / OAT 7°C)                       | Capacity         | kW     | 4.00                                                         | 6.00                | 8.00                | 10.00                | 10.00                |
|                                                       | Power input      | kW     | 0.73                                                         | 1.12                | 1.50                | 1.96                 | 1.96                 |
|                                                       | COP              | -      | 5.50                                                         | 5.35                | 5.35                | 5.10                 | 5.10                 |
| Heating<br>(LWT 55°C / OAT 7°C)                       | Capacity         | kW     | 4.00                                                         | 6.00                | 8.00                | 10.00                | 10.00                |
|                                                       | Power input      | kW     | 1.19                                                         | 1.82                | 2.35                | 3.13                 | 3.13                 |
|                                                       | COP              | -      | 3.35                                                         | 3.30                | 3.40                | 3.20                 | 3.20                 |
| Space heating<br>Average climate<br>water outlet 35°C | SCOP             | -      | 5.10                                                         | 5.10                | 5.20                | 5.10                 | 5.10                 |
|                                                       | ns               | %      | 201                                                          | 201                 | 205                 | 201                  | 201                  |
|                                                       | Energy class     | -      | A+++                                                         | A+++                | A+++                | A+++                 | A+++                 |
| Space heating<br>Average climate<br>water outlet 55°C | SCOP             | -      | 3.85                                                         | 3.83                | 3.85                | 3.83                 | 3.83                 |
|                                                       | ns               | %      | 151                                                          | 150                 | 151                 | 150                  | 150                  |
|                                                       | Energy class     | -      | A+++                                                         | A+++                | A+++                | A+++                 | A+++                 |
| Cooling<br>(LWT 18°C / OAT 35°C)                      | Capacity         | kW     | 4.00                                                         | 6.00                | 7.50                | 9.50                 | 9.50                 |
|                                                       | Power input      | kW     | 0.79                                                         | 1.20                | 1.58                | 2.21                 | 2.21                 |
|                                                       | EER              | -      | 5.05                                                         | 5.00                | 4.75                | 4.30                 | 4.30                 |
| Cooling<br>(LWT 7°C / OAT 35°C)                       | Capacity         | kW     | 3.50                                                         | 5.00                | 6.80                | 8.50                 | 8.50                 |
|                                                       | Power input      | kW     | 0.95                                                         | 1.37                | 1.97                | 2.62                 | 2.62                 |
|                                                       | EER              | -      | 3.70                                                         | 3.65                | 3.45                | 3.25                 | 3.25                 |
| Outdoor operating<br>temperature range                | Heating          | °C     | -25 ~35                                                      | -25 ~35             | -25 ~35             | -25 ~35              | -25 ~35              |
|                                                       | Cooling          | °C     | 10 ~ 48                                                      | 10 ~ 48             | 10 ~ 48             | 10 ~ 48              | 10 ~ 48              |
|                                                       | DHW              | °C     | -25 ~43                                                      | -25 ~43             | -25 ~43             | -25 ~43              | -25 ~43              |
| Leaving water<br>temperature range                    | Heating          | °C     | 20-80                                                        | 20-80               | 20-80               | 20-80                | 20-80                |
|                                                       | Cooling          | °C     | 5-25                                                         | 5-25                | 5-25                | 5-25                 | 5-25                 |
| Storage temperature<br>range(tank)                    | DHW              | °C     | 25~75                                                        | 25~75               | 25~75               | 25~75                | 25~75                |
| Water piping connection                               | Inlet/Outlet     | inch   | R 1/R 1                                                      | R 1/R 1             | R 1/R 1             | R 1/R 1              | R 1/R 1              |
| Expansion tank                                        | L                |        | 4.5                                                          | 4.5                 | 4.5                 | 4.5                  | 4.5                  |
| Compressor                                            | Quantity         | -      | 1                                                            | 1                   | 1                   | 1                    | 1                    |
|                                                       | Type             | -      | DC inverter twin rotary                                      |                     |                     |                      |                      |
| Refrigerant                                           | Type             | -      | R290                                                         |                     |                     |                      |                      |
|                                                       | Charge/CO2 Eq.   | kg/t   | 0.8/2.4                                                      | 0.8/2.4             | 0.9/2.7             | 0.9/2.7              | 0.9/2.7              |
| Net dimension                                         | (HxWxD)          | mm     | 790 × 1250 × 380                                             | 790 × 1250 × 380    | 790 × 1250 × 380    | 790 × 1250 × 380     | 790 × 1250 × 380     |
| Packing dimension                                     | (HxWxD)          | mm     | 1022 × 1395 × 595                                            | 1022 × 1395 × 595   | 1022 × 1395 × 595   | 1022 × 1395 × 595    | 1022 × 1395 × 595    |
| Net/Gross weight                                      |                  | kg     | 94/127                                                       | 94/127              | 106/139             | 106/139              | 121/154              |
| Sound Pressure level*(1)                              |                  | dB(A)  | 44                                                           | 47                  | 48                  | 49                   | 49                   |
| Sound power level*(1)                                 |                  | dB     | 55                                                           | 58                  | 59                  | 60                   | 60                   |
| Power supply                                          |                  | V/-/Hz | 220-240/1/50                                                 | 220-240/1/50        | 220-240/1/50        | 220-240/1/50         | 380-415/3/50         |
| Max. running current                                  |                  | A      | 13.5                                                         | 13.5                | 18.6                | 18.6                 | 6.2                  |
| Recommended<br>circuit breaker                        |                  | A      | 16.0                                                         | 16.0                | 20.0                | 20.0                 | 16.0                 |
| Accessory                                             | Wired controller | -      | HW-WA101DBT                                                  |                     |                     |                      |                      |
|                                                       | PCB Box          | -      | ATW-A03N (Must be ordered Separately - Includes HW-WA101DBT) |                     |                     |                      |                      |
|                                                       | Filter           | -      | Y-type (Standard)                                            |                     |                     |                      |                      |

Note: \*(1)The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017(A7/W35)



# MONOBLOC GT R290



AW122MXGHA  
AW142MXGHA  
AW162MXGHA

AW12NMXGHA  
AW14NMXGHA  
AW16NMXGHA



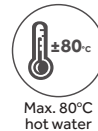
ATW-A03N  
(Must be ordered  
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HW-WA101DBT

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The monobloc unit has a wiring centre mounted inside the house to make wiring simpler. It connects to the outdoor unit with a 2 core cable.

| Product Data                                          |                  |      | Monobloc<br>12kW-1Ph                                         | Monobloc<br>14kW-1Ph | Monobloc<br>16kW-1Ph | Monobloc<br>12kW-3Ph | Monobloc<br>14kW-3Ph | Monobloc<br>16kW-3Ph |
|-------------------------------------------------------|------------------|------|--------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Model                                                 |                  |      | AW122MXGHA                                                   | AW142MXGHA           | AW162MXGHA           | AW12NMXGHA           | AW14NMXGHA           | AW16NMXGHA           |
| Heating<br>(LWT 35°C / OAT 7°C)                       | Capacity         | kW   | 12.00                                                        | 14.00                | 16.00                | 12.00                | 14.00                | 16.00                |
|                                                       | Power input      | kW   | 2.35                                                         | 2.83                 | 3.23                 | 2.35                 | 2.83                 | 3.23                 |
|                                                       | COP              | -    | 5.10                                                         | 4.95                 | 4.95                 | 5.10                 | 4.95                 | 4.95                 |
| Heating<br>(LWT 55°C / OAT 7°C)                       | Capacity         | kW   | 11.50                                                        | 13.50                | 15.50                | 11.50                | 13.50                | 15.50                |
|                                                       | Power input      | kW   | 3.48                                                         | 4.22                 | 5.08                 | 3.48                 | 4.22                 | 5.08                 |
|                                                       | COP              | -    | 3.30                                                         | 3.20                 | 3.05                 | 3.30                 | 3.20                 | 3.05                 |
| Space heating<br>Average climate<br>water outlet 35°C | SCOP             | -    | 4.82                                                         | 4.80                 | 4.80                 | 4.82                 | 4.80                 | 4.80                 |
|                                                       | ns               | %    | 190                                                          | 189                  | 189                  | 190                  | 189                  | 189                  |
|                                                       | Energy class     | -    | A+++                                                         | A+++                 | A+++                 | A+++                 | A+++                 | A+++                 |
| Space heating<br>Average climate<br>water outlet 55°C | SCOP             | -    | 3.85                                                         | 3.83                 | 3.85                 | 3.85                 | 3.83                 | 3.85                 |
|                                                       | ns               | %    | 151                                                          | 150                  | 151                  | 151                  | 150                  | 151                  |
|                                                       | Energy class     | -    | A+++                                                         | A+++                 | A+++                 | A+++                 | A+++                 | A+++                 |
| Cooling<br>(LWT 18°C / OAT 35°C)                      | Capacity         | kW   | 11.50                                                        | 13.50                | 15.50                | 11.50                | 13.50                | 15.50                |
|                                                       | Power input      | kW   | 2.56                                                         | 3.14                 | 3.88                 | 2.56                 | 3.14                 | 3.88                 |
|                                                       | EER              | -    | 4.50                                                         | 4.30                 | 4.00                 | 4.50                 | 4.30                 | 4.00                 |
| Cooling<br>(LWT 7°C / OAT 35°C)                       | Capacity         | kW   | 10.00                                                        | 12.00                | 14.00                | 10.00                | 12.00                | 14.00                |
|                                                       | Power input      | kW   | 2.99                                                         | 3.75                 | 4.52                 | 2.99                 | 3.75                 | 4.52                 |
|                                                       | EER              | -    | 3.35                                                         | 3.20                 | 3.10                 | 3.35                 | 3.20                 | 3.10                 |
| Outdoor operating<br>temperature range                | Heating          | °C   | -25 ~ 35                                                     | -25 ~ 35             | -25 ~ 35             | -25 ~ 35             | -25 ~ 35             | -25 ~ 35             |
|                                                       | Cooling          | °C   | 10 ~ 48                                                      | 10 ~ 48              | 10 ~ 48              | 10 ~ 48              | 10 ~ 48              | 10 ~ 48              |
|                                                       | DHW              | °C   | -25 ~ 43                                                     | -25 ~ 43             | -25 ~ 43             | -25 ~ 43             | -25 ~ 43             | -25 ~ 43             |
| Leaving water<br>temperature range                    | Heating          | °C   | 20-80                                                        | 20-80                | 20-80                | 20-80                | 20-80                | 20-80                |
|                                                       | Cooling          | °C   | 5-25                                                         | 5-25                 | 5-25                 | 5-25                 | 5-25                 | 5-25                 |
| Storage temperature<br>range(tank)                    | DHW              | °C   | 25-75                                                        | 25-75                | 25-75                | 25-75                | 25-75                | 25-75                |
| Water piping connection                               | Inlet/Outlet     | inch | R 1/1 R 1                                                    | R 1/1 R 1            | R 1/1 R 1            | R 1/1 R 1            | R 1/1 R 1            | R 1/1 R 1            |
| Expansion tank                                        | L                |      | 8                                                            | 8                    | 8                    | 8                    | 8                    | 8                    |
| Compressor                                            | Quantity         | -    | 1                                                            | 1                    | 1                    | 1                    | 1                    | 1                    |
|                                                       | Type             | -    | DC inverter twin rotary                                      |                      |                      |                      |                      |                      |
| Refrigerant                                           | Type             | -    | R290                                                         |                      |                      |                      |                      |                      |
|                                                       | Charge/CO2 Eq.   | kg/t | 1.05/3.15                                                    | 1.05/3.15            | 1.25/3.75            | 1.05/3.15            | 1.05/3.15            | 1.25/3.75            |
| Net dimension                                         | (HxWxD)          | mm   | 880 × 1380 × 460                                             | 880 × 1380 × 460     | 880 × 1380 × 460     | 880 × 1380 × 460     | 880 × 1380 × 460     | 880 × 1380 × 460     |
| Packing dimension                                     | (HxWxD)          | mm   | 1112 × 1526 × 675                                            | 1112 × 1526 × 675    | 1112 × 1526 × 675    | 1112 × 1526 × 675    | 1112 × 1526 × 675    | 1112 × 1526 × 675    |
| Net/Gross weight                                      | kg               |      | 127/165                                                      | 127/165              | 136/174              | 142/180              | 142/180              | 151/189              |
| Sound Pressure level*(1)                              | dB(A)            |      | 52                                                           | 53                   | 55                   | 52                   | 53                   | 55                   |
| Sound power level*(1)                                 | dB               |      | 63                                                           | 64                   | 66                   | 63                   | 64                   | 66                   |
| Power supply                                          | V/-/Hz           |      | 220-240/1/50                                                 | 220-240/1/50         | 220-240/1/50         | 380-415/3/50         | 380-415/3/50         | 380-415/3/50         |
| Max. running current                                  | A                |      | 30.6                                                         | 30.6                 | 34.8                 | 10.2                 | 10.2                 | 11.6                 |
| Recommended<br>circuit breaker                        | A                |      | 32.0                                                         | 32.0                 | 40.0                 | 16.0                 | 16.0                 | 16.0                 |
| Accessory                                             | Wired controller | -    | HW-WA101DBT                                                  |                      |                      |                      |                      |                      |
|                                                       | PCB Box          | -    | ATW-A03N (Must be ordered Separately - Includes HW-WA101DBT) |                      |                      |                      |                      |                      |
|                                                       | Filter           | -    | Y-type (Standard)                                            |                      |                      |                      |                      |                      |



Note: \*(1) The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017(A7/W35)