## Aquarea High Performance Hydraulic L Series. Single phase · R290

**Natural refrigerant R290 with GWP 0,02.**
**Energy efficiency:** A+++ in heating at 35 °C.
**Flexibility:** Hydraulic connection between indoor and outdoor / Built-in magnetic water filter.
**Comfort:** Operation without backup heating at -25 °C / 75 °C water outlet temperature maximum at -10 °C outside temperature / 55 °C hot water even at -25 °C outside temperature.




* For All in One.

| Combination table | | | | | | | Outdoor unit | | |
|---|---|---|---|---|---|---|---|---|---|
| Indoor unit | | | | | | | Heating capacity | | |
| | | | | | | | Single phase (power to indoor) | | |
| | | DHW tank | Backup heater capacity | 2 zones | Electrical anode | | 5,0 kW | 7,0 kW | 9,0 kW |
| | | | | | | | WH-WDG05LE5 | WH-WDG07LE5 | WH-WDG09LE5 |
| Hydraulic All in One | 1ph | 120 L | 3 kW | — | — | WH-ADC0509L3E51 | ✔ | ✔ | ✔ |
| | | 120 L | 3 kW | — | ✔ | WH-ADC0509L3E5AN1 | ✔ | ✔ | ✔ |
| | | 185 L | 3 kW | — | — | WH-ADC0509L3E5 | ✔ | ✔ | ✔ |
| | | 185 L | 3 kW | — | ✔ | WH-ADC0509L3E5AN | ✔ | ✔ | ✔ |
| | | 185 L | 6 kW | — | — | WH-ADC0509L6E5 | ✔ | ✔ | ✔ |
| | | 185 L | 6 kW | — | ✔ | WH-ADC0509L6E5AN | ✔ | ✔ | ✔ |
| | | 185 L | 3 kW | ✔ | — | WH-ADC0509L3E5B | ✔ | ✔ | ✔ |
| Hydraulic Bi-bloc | 1ph | — | 3 kW | — | — | WH-SDC0509L3E5 | ✔ | ✔ | ✔ |
| | | — | 6 kW | — | — | WH-SDC0509L6E5 | ✔ | ✔ | ✔ |

| Outdoor unit | | | WH-WDG05LE5 | WH-WDG07LE5 | WH-WDG09LE5 |
|---|---|---|---|---|---|
| Heating capacity / COP (A +7 °C, W 35 °C) | | kW / COP | 5,00 / 5,05 | 7,00 / 4,93 | 9,00 / 4,55 |
| Heating capacity / COP (A +7 °C, W 55 °C) | | kW / COP | 5,00 / 3,07 | 7,00 / 2,98 | 8,90 / 3,03 |
| Heating capacity / COP (A +2 °C, W 35 °C) | | kW / COP | 5,00 / 3,52 | 6,85 / 3,43 | 7,00 / 3,41 |
| Heating capacity / COP (A +2 °C, W 55 °C) | | kW / COP | 5,00 / 2,34 | 6,25 / 2,34 | 7,00 / 2,41 |
| Heating capacity / COP (A -7 °C, W 35 °C) | | kW / COP | 5,00 / 3,01 | 5,80 / 3,01 | 7,00 / 2,80 |
| Heating capacity / COP (A -7 °C, W 55 °C) | | kW / COP | 5,00 / 2,12 | 5,80 / 2,12 | 7,00 / 2,13 |
| Cooling capacity / EER (A 35 °C, W 7 °C) | | kW / EER | 5,00 / 3,23 | 7,00 / 3,03 | 8,20 / 2,82 |
| Cooling capacity / EER (A 35 °C, W 18 °C) | | kW / EER | 5,00 / 5,00 | 7,00 / 4,73 | 9,00 / 4,19 |
| Heating average climate (W 35 °C / W 55 °C) | Seasonal energy efficiency | SCOP ($\eta_s$ %) | 5,06 / 3,63 (200 / 142) | 4,96 / 3,62 (195 / 142) | 4,84 / 3,67 (190 / 144) |
| | Energy class [1] | A+++ to D | A+++ / A++ | A+++ / A++ | A+++ / A++ |
| Heating warm climate (W 35 °C / W 55 °C) | Seasonal energy efficiency | SCOP ($\eta_s$ %) | 6,00 / 4,27 (237 / 168) | 6,31 / 4,52 (249 / 178) | 6,44 / 4,50 (255 / 177) |
| | Energy class [1] | A+++ to D | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ |
| Heating cold climate (W 35 °C / W 55 °C) | Seasonal energy efficiency | SCOP ($\eta_s$ %) | 4,25 / 3,28 (167 / 128) | 4,25 / 3,29 (167 / 129) | 4,31 / 3,33 (170 / 130) |
| | Energy class [1] | A+++ to D | A++ / A++ | A++ / A++ | A++ / A++ |
| Sound power [2] | Heat | dB(A) | 52 | 53 | 54 |
| Dimension / Net weight | H x W x D | mm / kg | 996 x 980 x 430 / 98 | 996 x 980 x 430 / 98 | 996 x 980 x 430 / 97 |
| Refrigerant (R290) / $CO_2$ Eq. | | kg / T | 0,96 / 0,00002 | 0,96 / 0,00002 | 1,00 / 0,00002 |
| Operating range - outdoor ambient | Heat | °C | -25 ~ +35 | -25 ~ +35 | -25 ~ +35 |
| | Cool | °C | +10 ~ +43 | +10 ~ +43 | +10 ~ +43 |
| Water outlet | Heat / Cool | °C | 20 ~ 75 / 5 ~ 20 | 20 ~ 75 / 5 ~ 20 | 20 ~ 75 / 5 ~ 20 |

1) Scale from A+++ to D. 2) Sound power level in accordance to EN 12102 under conditions of the EN14825 (part load). * EER and COP calculation is based in accordance to EN 14511.

R290 REFRIGERANT | A++ ErP 55°C | A+++ ErP 35°C | A+ DHW | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | DHW | -25 °C HEATING MODE | WATER FILTER WITH MAGNET | 75°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | WI-FI INCLUDED | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

DHW A+: For All in One. INTERNET CONTROL: Wi-Fi adapter included.

## All in One:

**Energy efficiency:** A+ in DHW / DHW up to 65 °C without heater / Stainless steel DHW tank with U-Vacua™ insulation panel / DHW COP up to 3,60.
**Flexibility:** Built-in 2 zone kit (for 2 zones models) / Installation in harsh water conditions (for models with Electrical Anode).
**Control:** Optimised user interface and improved features (2 zone control, bivalent control).
**Connectivity:** Wi-Fi adapter included.

| **Indoor unit** | | | **WH-ADC0509L3E51*** | **WH-ADC0509L3E5** | **WH-ADC0509L6E5** |
|---|---|---|---|---|---|
| **Indoor unit 2 zones** | | | **—** | **WH-ADC0509L3E5B** | **—** |
| **Indoor unit with Electrical Anode** | | | **WH-ADC0509L3E5AN1*** | **WH-ADC0509L3E5AN** | **WH-ADC0509L6E5AN** |
| Sound pressure | Heat / Cool | dB(A) | 31/31 | 28/28 | 28/28 |
| Dimension | H x W x D | mm | 1293 x 599 x 602 | 1642 x 599 x 602 | 1642 x 599 x 602 |
| Net weight / 2 zones model | | kg | 79/— | 93/101 | 94/— |
| Water pipe connector | Room | Inch | 1¼ | 1¼ | 1¼ |
| | Shower | Inch | ¾ | ¾ | ¾ |
| A class pump | Number of speeds | | Variable speed | Variable speed | Variable speed |
| | Input power (Min/Max) | W | 30/145 | 30/145 | 30/145 |
| Heating water flow (ΔT=5 K. 35 °C) | | L/min | 14,3 | 14,3 | 25,8 |
| Water volume | | L | 120 | 185 | 185 |
| Maximum DHW temperature | | °C | 65 | 65 | 65 |
| Material inside tank | | | Stainless steel | Stainless steel | Stainless steel |
| Water pipe connector (indoor / outdoor units) | | Inch | 1/1 | 1/1 | 1/1 |
| Pipe length range standard / maximum | | m | 5/30 | 5/30 | 5/30 |
| Elevation difference (in / out) | | m | 10 | 10 | 10 |
| Electric backup heater | | kW | 3,00 | 3,00 | 6,00 |
| Recommended fuse, supply 1 / 2 [1] | | A | 25/16 | 25/16 | 25/30 |
| Recommended minimum cable size, supply 1 / 2 [1] | | mm² | 3x2,5/3x1,5 | 3x2,5/3x1,5 | 3x2,5/3x4,0 |

| **Domestic Hot Water energy efficiency** | | | **120 L** | **185 L** | **120 L** | **185 L** | **120 L** | **185 L** |
|---|---|---|---|---|---|---|---|---|
| **Indoor unit ()** | | **WH-** | **ADC0509L3E51** | **ADC0509L3E5** | **ADC0509L3E51** | **ADC0509L3E5** | **ADC0509L3E51** | **ADC0509L3E5** |
| | | | **ADC0509L3E5AN1** | **ADC0509L3E5AN** | **ADC0509L3E5AN1** | **ADC0509L3E5AN** | **ADC0509L3E5AN1** | **ADC0509L3E5AN** |
| | | | | **ADC0509L3E5B** | | **ADC0509L3E5B** | | **ADC0509L3E5B** |
| | | | | **ADC0509L6E5** | | **ADC0509L6E5** | | **ADC0509L6E5** |
| | | | | **ADC0509L6E5AN** | | **ADC0509L6E5AN** | | **ADC0509L6E5AN** |
| **Outdoor unit** | | | **WH-WDG05LE5** | | **WH-WDG07LE5** | | **WH-WDG09LE5** | |
| Tapping profile according EN16147 | | | M | L | M | L | M | L |
| DHW tank ERP efficiency average / warm / cold [2] | A+ to F | | A+/A++/A | A+/A+/A | A+/A++/A | A+/A+/A | A+/A++/A | A+/A+/A |
| DHW tank ERP average climate η / COPdHW | ηwh%/COPdHW | | 115/2,88 | 148/3,61 | 115/2,88 | 148/3,61 | 115/2,88 | 148/3,61 |
| DHW tank ERP warm climate η / COPdHW | ηwh%/COPdHW | | 134/3,35 | 160/4,00 | 134/3,35 | 160/4,00 | 134/3,35 | 160/4,00 |
| DHW tank ERP cold climate η / COPdHW | ηwh%/COPdHW | | 90/2,26 | 112/2,80 | 90/2,26 | 112/2,80 | 90/2,26 | 112/2,80 |

1) Check local regulations. 2) Scale from A+ to F. * Available Spring 2025. ** This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

## Bi-bloc:

**Flexibility:** Flexible choice of DHW tank size.
**Control:** Optimised user interface and improved features (2 zone control, bivalent control).
**Connectivity:** Wi-Fi adapter included.

| **Indoor unit** | | | **WH-SDC0509L3E5** | **WH-SDC0509L6E5** |
|---|---|---|---|---|
| Sound pressure | Heat / Cool | dB(A) | 28/28 | 28/28 |
| Dimension / Net weight | H x W x D | mm | 892 x 500 x 348 / 33 | 892 x 500 x 348 / 33 |
| Water pipe connector | Room | Inch | R 1¼ | R 1¼ |
| A class pump | Number of speeds | | Variable speed | Variable speed |
| | Input power (Min/Max) | W | 30/145 | 30/145 |
| Heating water flow (ΔT=5 K. 35 °C) | | L/min | 14,3 | 20,1 |
| Water pipe connector (indoor / outdoor units) | | Inch | 1/1 | 1/1 |
| Pipe length range standard / maximum | | m | 5/30 | 5/30 |
| Elevation difference (in / out) | | m | 10 | 10 |
| Electric backup heater | | kW | 3,00 | 6,00 |
| Recommended fuse, supply 1 / 2 [1] | | A | 25/16 | 25/30 |
| Recommended minimum cable size, supply 1 / 2 [1] | | mm² | 3x2,5/3x1,5 | 3x2,5/3x4,0 |

1) Check local regulations. * This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

| **Common accessories** | |
|---|---|
| **CZ-RTW1** | Optional remote controller for 2 zone control. K and L Series |
| **CZ-NS5P** | PCB for advanced functions |
| **PAW-A2W-RTWIRED** | Room thermostat |
| **PAW-A2W-RTWIRELESS** | Wireless LCD room thermostat |
| **PAW-A2W-AFVLV-1** | 1 antifreeze valve. It is required to order 2 valves per system |

| **Bi-bloc accessories** | |
|---|---|
| **PAW-TD20C1E5-1** | Tank 200 L - Stainless steel |
| **PAW-TD30C1E5-1** | Tank 300 L - Stainless steel |
| **PAW-TA20C1E5STD** | Tank 200 L - Enamelled |
| **PAW-TA30C1E5STD** | Tank 300 L - Enamelled |
| **PAW-3WYVLV-HW** | 3 way valve for DHW tanks |
| **CZ-NV2** | 3 way valve kit to fit inside the hydrokit. K and L Series |
| **PAW-BTANK50L-2** | Buffer tank 50 L |