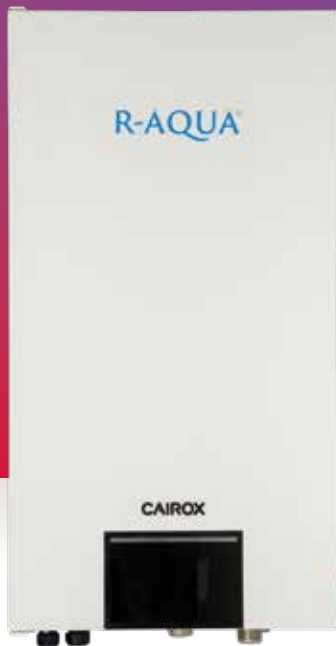
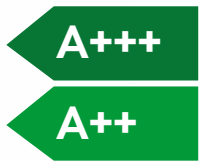




R-AQUA®

AIR/WATER HEAT INVERTER
HEAT PUMPS WITH R32



AIR/WATER HEAT PUMPS WITH R32 HYDRAULIC MODULE

Air/water heat pumps with high-efficiency energy-saving DC inverter and R32 refrigerant. The energy from the outdoor air is absorbed and transmitted to the water using the advanced heat pump technology for heating and cooling of the home and domestic hot water. The smart control for the compressor and expansion valve allows for quick, precise adjustment of the water temperature, thereby reducing energy consumption.

APPLICATION

- Heating of new or existing homes
- Heating via radiators, fan convectors, underfloor or wall heating
- Heating of domestic hot water



Hot water at 60 °C

All R-Aqua air/water heat pumps are equipped with a twin rotary compressor. This heat pump provides water at 60°C without the need to use an electric backup heater, even at temperatures below 0 °C.

USER-FRIENDLY CONTROL

All of the menus can be easily accessed via the colour LCD screen. We have opted for a user-friendly layout, with the functions and parameters (adjustment, display and commissioning) on a single page.

- Several timers
- Weekly program
- Back-up heater
- Quick provision of domestic hot water
- Protection against Legionella
- Adjustment of the underfloor heating

| No. | Functions |
|-----|------------------------------|
| 1 | Current operating mode |
| 2 | Date |
| 3 | Time |
| 4 | Adjustment of the functions |
| 5 | Adjustment of the parameters |
| 6 | View the parameters |
| 7 | Commissioning parameters |
| 8 | ON/OFF |
| 9 | General settings |
| 10 | Overview |

WI-FI CONTROL

All models have Wi-Fi as standard, making it easier to view the operating status and adjust the pump remotely.

- Wi-Fi & Modbus interface as standard
- Adjustment according to the meteorological conditions
- Inverter technology
- User-friendly functions
- High efficiency
- A+++ energy class
- Wide operating range

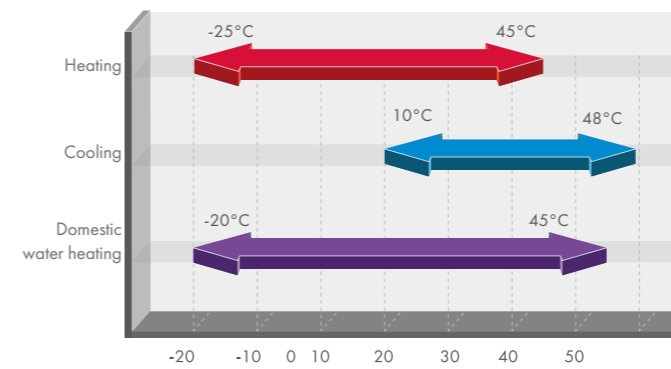


SPECIFICATIONS

OPERATING RANGE

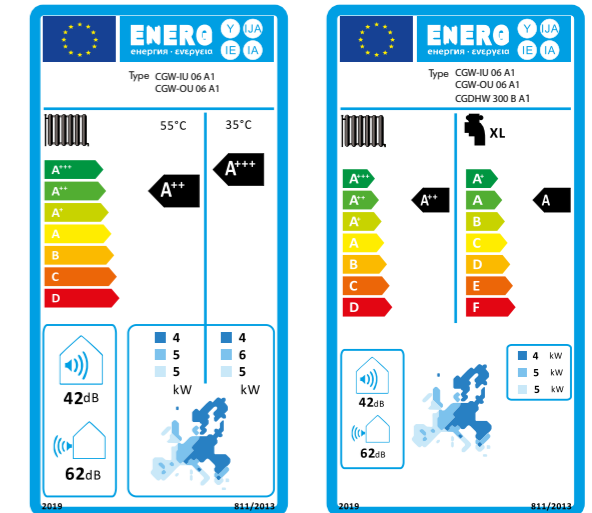
Wide operating range
 Heating: -25 ~ 45 °C
 Cooling: 10 ~ 48 °C
 Domestic water heating: -20 ~ 45 °C

Domestic hot water temperature
 Domestic hot water: 40 to 80 °C



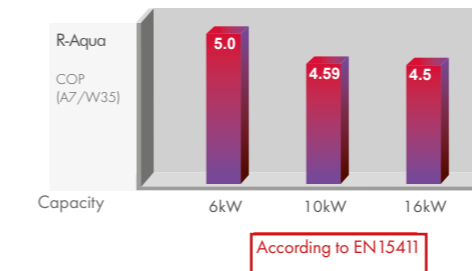
THE LATEST TECHNOLOGY

- High-efficiency plate heat exchanger
- Wilo circulator pump
- DC inverter compressor
- Energy-saving DC fans



COP OF UP TO 5.0

R-Aqua offers highly efficient heating with a COP of up to a maximum of 5.0.



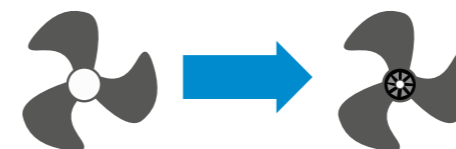
FAN & MOTOR

Efficient axial fan

The R-Aqua units are equipped with efficient, energy-saving axial fans, which ensures the system provides reliable, stable and ultra-quiet operation.

Direct current fan motor

The continuously variable DC fan motor guarantees a high air flow rate and lower energy consumption.



ULTRA QUIET OPERATING MODE



By modifying the power of the compressor and fan, the operating noise can be decreased by more than 3 dB(A) during the night or when ultra-quiet operation is preferable, thereby halving the sound level.

HIGH QUALITY GOLD FIN COATING

The outdoor unit coil features a Gold Fin coating which guarantees a long service life and shortens the defrosting time.



HIGH EFFICIENCY

The stainless steel (316L) plate heat exchanger ensures maximum heat transmission between the refrigerant and water in the system. The heat exchangers have been carefully selected to guarantee the highest possible level of performance.





BOILER FOR DOMESTIC HOT WATER

The **R-AQUA SANI** is a water boiler designed for storing domestic hot water. This boiler is equipped with a coil which can be connected to a heat pump or another heat source. Furthermore, the boiler features an additional input for integrating an electrical heater. The boiler is manufactured from steel with an enamel coating to protect the interior from corrosion. A magnesium anode is provided in the boiler as additional protection against ionisation. The boiler has a layer of grey synthetic material on the exterior which provides thermal insulation. The R-AQUA SANI is available with a volume of 300 or 500 litres.

APPLICATION

- Storage of domestic hot water
- Suitable for residential applications
- Suitable for non-residential applications (offices, shops and commercial spaces, catering and hotels, fitness centres, housing, etc.)



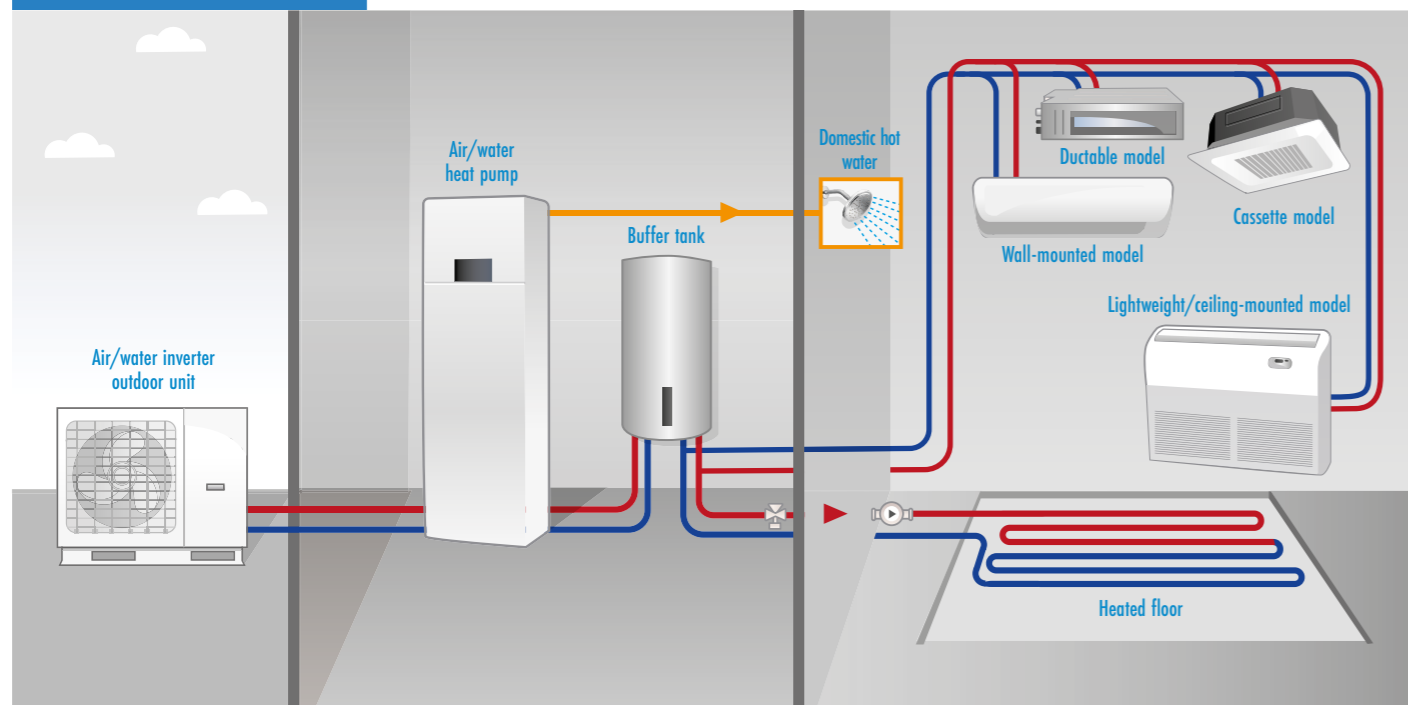
BOILER FOR DOMESTIC HOT WATER WITH DUAL HEAT EXCHANGER

The **R-AQUA SANI-S** is a water boiler designed for storing domestic hot water. This boiler is equipped with two coils which can be connected to a heat pump and an additional heat source. The upper coil uses the energy from the pump and the lower coil uses the thermal energy from solar collectors or the boiler, for example. Furthermore, the boiler is manufactured from steel with an enamel coating to protect the interior from corrosion. A magnesium anode is provided in the boiler as additional protection against ionisation. The boiler has a layer of polyurethane heat insulation (50 mm thick) and is also finished with a layer of grey synthetic material on the exterior. The R-AQUA SANI-S is available with a volume of 300 or 500 litres.

APPLICATION

- Storage of domestic hot water
- Suitable for residential applications
- Suitable for non-residential applications (offices, shops and commercial spaces, catering and hotels, fitness centres, housing, etc.)
- Connection of a second heat source

SCHEMATIC DIAGRAM



SPLIT SYSTEM HYDRAULIC MODULE



| Indoor unit | | R-Aqua-CGW-IU 06 A1 | R-Aqua-CGW-IU 10 A1 | R-Aqua-CGW-IU 16 A1 1ph | | |
|--|--------------------|------------------------|--------------------------------|--------------------------------|------------------------------------|-------|
| Heating capacity A7/W35 | kW | 6.0 | 9.5 | 15.5 | | |
| COP A7/W35 | | 5.0 | 4.59 | 4.5 | | |
| Heating capacity A7/W45 | kW | 5.9 | 9.5 | 16,09 | | |
| COP A7/W45 | | 3.91 | 3.60 | 3,62 | | |
| Heating capacity A2/W35 | kW | 5.1 | 8.1 | 13,13 | | |
| COP A2/W35 | | 4.26 | 3.85 | 3,74 | | |
| Heating capacity A2/W45 | kW | 5.0 | 8.1 | 13,13 | | |
| COP A2/W45 | | 3.44 | 3.17 | 3,13 | | |
| Heating capacity A-7/W35* | kW | 4.2 | 6.7 | 10,81 | | |
| COP A-7/W35 | | 3.05 | 2.81 | 2,74 | | |
| Heating capacity A-7/W45* | kW | 4.1 | 6.7 | 10,81 | | |
| COP A-7/W45 | | 2.42 | 2.23 | 2,21 | | |
| Heating capacity A-10/W35* | kW | 3.9 | 6.2 | 10,04 | | |
| Heating capacity A-10/W45* | kW | 3.8 | 6.2 | 10,04 | | |
| Refrigerant (PRP) | | R32 (675) | R32 (675) | R32 (675) | | |
| Power supply | V / Ph / Hz | 230/1/50 | | 230/1/50 | | |
| Heat pump seasonal efficiency (%) ** | (35 °/55 °C) | 178,7 / 127,4 | 181/127 | 181,2/137 | | |
| Heat pump annual energy consumption *** | kWh (35 °/55 °C) | 2729/3169 | 4038/5091 | 5886/8045 | | |
| Energy class | 35 °/55 °C | A+++/A++ | A+++/A++ | A+++/A++ | | |
| Components | Heating electrical | Type | - | Dry resistor | Dry resistor | |
| | | Material | - | Stainless steel | Stainless steel | |
| | | Adjustment | - | Automatic | Automatic | |
| | | Number of steps | - | 2 | 2 | |
| | | Power | kW | 3 | 6 | 6 |
| | | Combination | kW | 1,5 + 1,5 | 3 + 3 | 3 + 3 |
| Heat exchanger | Type | - | Plate exchanger | | Plate exchanger. | |
| | Number | - | 1 | 1 | 1 | |
| Sound pressure level @ 1 m | | dB(A) | 29 | | 29 | |
| Back-up heater power cable cross section | | mm ² | 3G 2.5 | 3G 6 | 3G 6 | |
| Indoor unit power cable cross section | | mm ² | 3G 2.5 | 3G 6 | 3G 6 | |
| Automatic fuse (slow burn) | | A | 20 | 32 | 32 | |
| Dimensions | Device (LxDxH) | mm | 460 x 320 x 860 | | 460 x 320 x 860 | |
| | Weight | kg | 62 | | 62 | |
| Corresponding outdoor unit | | | R-AQUA-CGW-OU 06 A1 | R-AQUA-CGW-OU 10 A1 | R-AQUA-CGW-OU 16 A1 1ph | |

* Including defrosting cycle | ** According to EN14825 | *** According to EN14511

SPLIT SYSTEM

HYDRAULIC MODULE WITH INTEGRATED BOILER



| Indoor unit | | R-Aqua-CGW-OU 06 A1 | R-Aqua-CGW-OU 10 A1 | | |
|--|------------------|---------------------|---------------------|-----------|-------|
| Heating capacity A7/W35 | kW | 6.0 | 9.5 | | |
| COP A7/W35 | | 5.0 | 4.59 | | |
| Heating capacity A7/W45 | kW | 5.9 | 9.5 | | |
| COP A7/W45 | | 3.91 | 3.60 | | |
| Heating capacity A2/W35 | kW | 5.1 | 8.1 | | |
| COP A2/W35 | | 4.26 | 3.85 | | |
| Heating capacity A2/W45 | kW | 5.0 | 8.1 | | |
| COP A2/W45 | | 3.44 | 3.17 | | |
| Heating capacity A-7/W35* | kW | 4.2 | 6.7 | | |
| COP A-7/W35 | | 3.05 | 2.81 | | |
| Heating capacity A-7/W45* | kW | 4.1 | 6.7 | | |
| COP A-7/W45 | | 2.42 | 2.23 | | |
| Heating capacity A-10/W35* | kW | 3.9 | 6.2 | | |
| Heating capacity A-10/W45* | kW | 3.8 | 6.2 | | |
| Refrigerant (PRP) | | R32 (675) | R32 (675) | | |
| Power supply | V / Ph / Hz | 230/1/50 | | | |
| Heat pump seasonal efficiency (%) ** | (35 °/55 °C) | 178,7 / 127,4 | 181 / 127 | | |
| Heat pump annual energy consumption *** | kWh (35 °/55 °C) | 2729/3169 | 4038/5091 | | |
| Energy class | 35 °/55 °C | A+++/A++ | A+++/A++ | | |
| Components | Electric heating | Type | Dry resistor | | |
| | | Material | Stainless steel | | |
| | | Adjustment | Automatic | | |
| | | Number of steps | 2 | | |
| | | Power | kW | 3 | 6 |
| | Heat exchanger | Combination | kW | 1,5 + 1,5 | 3 + 3 |
| | | Type | Plate exchanger | | |
| | Water tank | Number | 1 | | |
| | | Volume | L | 185 | |
| | | Electric heater | kW | 3 | |
| Type | | XL | | | |
| Sound pressure level @ 1 m | dB(A) | 29 | | | |
| Back-up heater power cable cross section | mm ² | 3G 2.5 | 3G 6 | | |
| Indoor unit power cable cross section | mm ² | 3G 2.5 | 3G 6 | | |
| Automatic fuse (slow burn) | A | 20 | 32 | | |
| Dimensions | Device (BxDxH) | mm 803 x 683 x 2000 | | | |
| | Weight | kg 210 | | | |
| Corresponding outdoor unit | | R-AQUA-CGW-OU 06 A1 | R-AQUA-CGW-OU 10 A1 | | |

* Including defrosting cycle | ** According to EN14825 | *** According to EN14511

SPLIT SYSTEM

OUTDOOR UNIT



This outdoor unit for air/water heat pump with R32 refrigerant and DC inverter compressor is used to connected an R-AQUA-CGW-IU A1 or R-AQUA-CGW-ID A1 type hydraulic module (with integrated boiler). The DC twin rotary compressor guarantees ultra-quiet operation and a long service life.

This outdoor unit is always sold in combination with the R-AQUA-CGW-IU A1 ou R-AQUA-CGW-ID A1 indoor unit.

| Outdoor unit | | R-Aqua-CGW-OU 06 A1 | R-Aqua-CGW-OU 10 A1 | R-Aqua-CGW-OU 16 A1 |
|--|-------------------------|---------------------|---------------------|---------------------|
| Refrigerant (PRP) | | R32 (675) | R32 (675) | R32 (675) |
| Maximum air flow rate | m ³ /h | 3200 | 3512 | 5044 |
| Power supply | V | 230/1+N | 230/1+N | 230/1+N |
| Nominal current (F/C) | A | 10/10 | 22,0/15,0 | 17,4/30,3 |
| Compressor type | | Rotary DC | Rotary DC | Rotary DC |
| Sound pressure level (F/C) | dB(A) | 52/52 | 55/55 | 60/61 |
| Dimensions (H x L x D) | mm | 702x975x396 | 787x982x427 | 820x940x460 |
| Weight | kg | 55 | 82 | 104 |
| Refrigerating pipes | inches | 1/4 - 1/2 | 1/4 - 1/2 | 1/4 - 5/8 |
| Precharged quantity of refrigerant | g (TCO ₂ eq) | 1000 (0,675) | 1600 (1,08) | 1840 (1,242) |
| Quantity of additional refrigerant per metre | g/m | 16 | 16 | 0 |
| Number of precharged metres | m | 10 | 10 | 15 |
| Maximum length/height refrigerating piping | m/m | 20/15 | 25 /15 | 15/15 |
| Minimum length, refrigerating piping | m | 5 | 5 | 5 |
| Operation temperature range in cooling mode | °C | +10~+48 | +10~+48 | +10 + 48 |
| Operation temperature range in heating mode | °C | -25~+35 | -25~+35 | -25 +35 |
| Domestic hot water operating temperature range | °C | -25~+45 | -25~+45 | -25 +45 |
| Power cable cross section | mm ² | 3G 2.5 | 3G 4 | 3G 6 |
| Automatic fuse (slow burn) | A | 16 | 25 | 32 |

R-AQUA®

A DEDICATED MOBILE APPLICATION

Control via **smartphone** or **tablet**

- Control remotely
- User-friendly menu
- Suitable for Apple & Android



... AND MUCH MORE

- Wi-Fi & Modbus interface as standard
- Adjustment according to the meteorological conditions
- Inverter technology
- User-friendly functions
- High efficiency
- A+++ energy class
- Wide operating range

Company name
Address
Website
Tel.

Company logo