# warmhaus

## Safe and Comfortable Hot Water with **Smart Safety Technologies**

**12 Liters** of Hot Water Per Minute

**48 dB** Low Sound Level

**21 kW** Water Heating Power

**Up To %89,2** High Efficiency ($\eta_u$-min.)

**A** Energy Class

**20 - 30 W** Low Electric Consumption

ErP Best **NOx Class 6** Category

Compact Dimensions **51,9 Liters** Volume

## AquWa 12

Environment-Friendly Low NOx Production
**Hermetic Gas Water Heater**

**Beyçelik** HOLDİNG

# AquWa 12 Gas Water Heater Safe Use with 12 Smart Safety Technology Features

**Bad Combustion Safety** for situations where waste gas and fresh air mix in the flue connection system

**Over-Heat Safety Feature**

**Hermetic Body** that does not consume the ambient air and evacuates the waste gas with a fan

**Shutdown Safety Feature** in case of blockage in the flue.

**Fan Safety Feature**, that controls the operation of The Fan (Hall Sensor)

In case of flame loss that may occur due to various reasons, **Flame Loss Safety Feature** that shuts down the water heater

**Gas Cut-Off Safety** that shuts off the gas flow in case combustion is interrupted
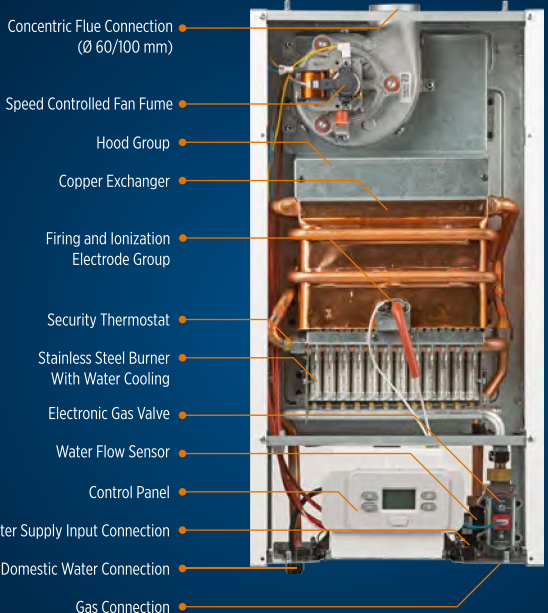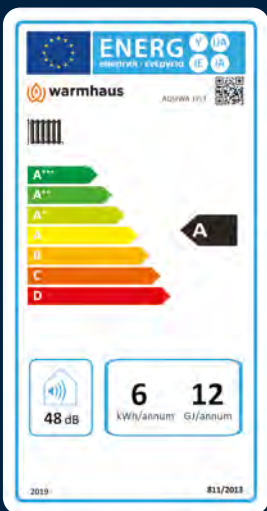
**Frost Protection Function**, that is activated when the mains water temperature is lower than +5 °C

**Solar Function Safety Feature**, that ensures compatible operation with Solar Energy heating systems containing storage tanks

**Gas Valve Failure Safety Feature**

**Sensor Failure Safety Feature**

**Anti-Inertia Function,** that decreases the water temperaturein casethe water temperature exceeds 70°C

ENERG
elektrik / eστρoικά
warmhaus
AQuWA 1FLT

A⁺⁺⁺
A⁺⁺
A⁺
B
C
D

A

48 dB

6 kWh/annum

12 GJ/annum

2019    811/2013

Concentric Flue Connection (Ø 60/100 mm)

Speed Controlled Fan Fume

Hood Group

Copper Exchanger

Firing and Ionization Electrode Group

Security Thermostat

Stainless Steel Burner With Water Cooling

Electronic Gas Valve

Water Flow Sensor

Control Panel

City Cold Water Supply Input Connection

Hot Domestic Water Connection

Gas Connection

# Superior Features of AquWa 12

### Long Lasting and Durable Copper Heat Exchanger

The heat exchanger manufactured from oxygen-free copper is resistant against brittleness and deformation. Also, it is more environment-friendly since it doesn't require aluminum coating.

### Stainless Steel Burner

- Water cooled design
- Burner with lower NOx and CO emissions lower than class 6 (<56 mg / kWh), determining the lowest NOx level according to the ErP Directives.
  - 37.7 mg/kWh NOx output
  - CO < 85 ppm
- Robust construction with stainless steel material
- High flame modulation

### Wide Interval Burning Modulation

The electronic card continuously controls the gas valve and the variable cycle fan, and ensures that the flame modulation produces power between 9 kW- 21 kW in order to keep the domestic water at the most sensitive level.

### Very Low Electric Consumption

The powerful modulating fan that discharges the exhaust gas is environment-friendly with a very low electric consumption of 20 to 30 W during operation and only 3 W at stand-by.

### Trouble- Free Use thanks to Hermetic Body

Easier installation and trouble-free use against combustion errors that may occur due to air circulation, with its technology that does not require throttling washer in the flue connection.

### Advanced Electronic Card and Uninterrupted Hot Water Comfort

Continuously produces hot water to prevent temperature fluctuations that can happen because of temperature and flow rate changes during hot water usage. In this way, it provides hot water comfort from 3 liters to 12 liters per minute without any hot/cold water fluctuations.
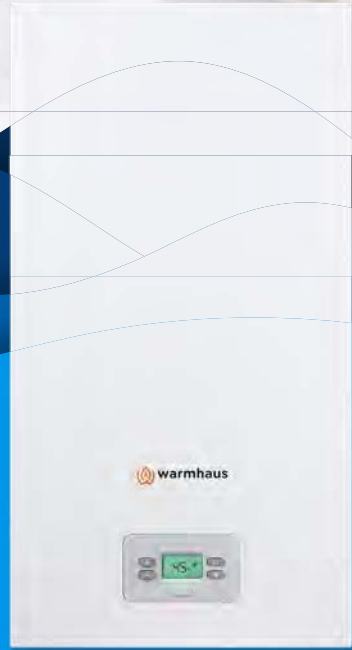
### Turbine Water Flow Sensor Fast Hot Water

The sensitive turbine water flow sensor, protected by a special filter, detects water flow instantly and the AquWa 12 gas water heater starts to produce hot water quickly.

638 mm

336 mm    242 mm

### Compact Dimensions and Small Volume

With a height of 638 mm, a width of 336 mm and a depth of 242 mm, the AquWa 12 water heater occupies little space and offers a stylish appearance with a total volume of only 51.9 liters.

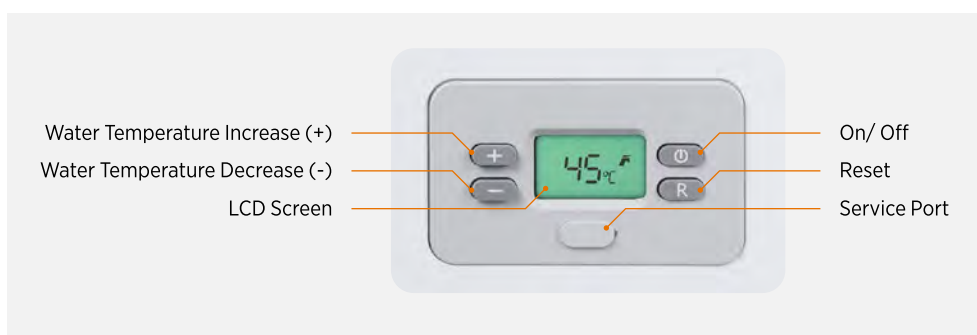# 12 Liters Per Minute Continuous Hot Water

| Technical Data | UNIT | AquWa 12 |
|---|---|---|
| Rated Heat Load (Minimum/Maximum) | kW | 10,0 / 23,5 |
| Rated Heat Power(Minimum/Maximum) Rated Heat | kW | 8,90 / 20,7 |
| Efficiency(Minimum / Maximum) | % | 89,2 / 88,1 |
| Natural Gas Consumption (Minimum / Maximum) | m³/h | 1,03 / 2,43 |
| NOx | Class | 6 |
| NOx | mg/kWh | 37,7 |
| Seasonal Efficiency Class | Class | A |
| Seasonal Efficiency | % | 77 |
| Hot Water Load Profile | Load Profile | L |
| Capacity (ΔT= 25 °C) | l/min. | 12 |
| Minimum Water Flow | l/min. | 3 |
| Water Pressure Maximum | bar | 10 |
| Water Pressure Minimum | bar | 0,5 |
| Adjustment Interval | °C | 35 - 60 |
| Sound | dB | 48 |
| Electrical Protection Class | | IPX4D |
| Electric Consumption | W | 20-30 |
| Dimensions | cm | 638 x 336 x 242 |
| Volume | Liter | 51,9 |
| Weight Net | kg | 15 |
| Weight Gross | kg | 17 |
| Flue Type | | C12, C32 |

# AquWa 12 Hermetic Gas Water Heater Features

- 21 kW water heating power

- 12 liters of comfortable hot water production per minute

- A class energy efficiency

- High efficiency up to 89.2% (ɲu-min.)

- Domestic hot water in L (Large) profile

- Low exhaust gas emissions compatible with ErP directives (NOx class 6) provided by water-cooled stainless-steel burner

- Durable and environment-friendly copper heat exchanger

- Comfortable use as a result of wide modulation range between 21 kW to 9 Kw

- 35 - 60 °C water temperature adjustment range

- Precise demand detection thanks to the turbine water flow sensor

- 48 dB low sound level

- Takes up less space with its compact dimensions and small volume [0.0519 m³ = 51.9 Liters]

- Electricity consumption only as much as a light bulb thanks to variable speed fan

- Only 3 W electric consumption in stand-by mode

- Digital LCD screen: ±1 °C temperature adjustment sensitivity, Error Diagnostic System, easy "Error RESET Feature"

- Operation range between 195-253 V AC

- Compatible with solar energy heating systems containing storage tanks

- Flue length up to 4 meters horizontally and vertically

## Modern and Elegant Control Panel

Water Temperature Increase (+)
Water Temperature Decrease (-)
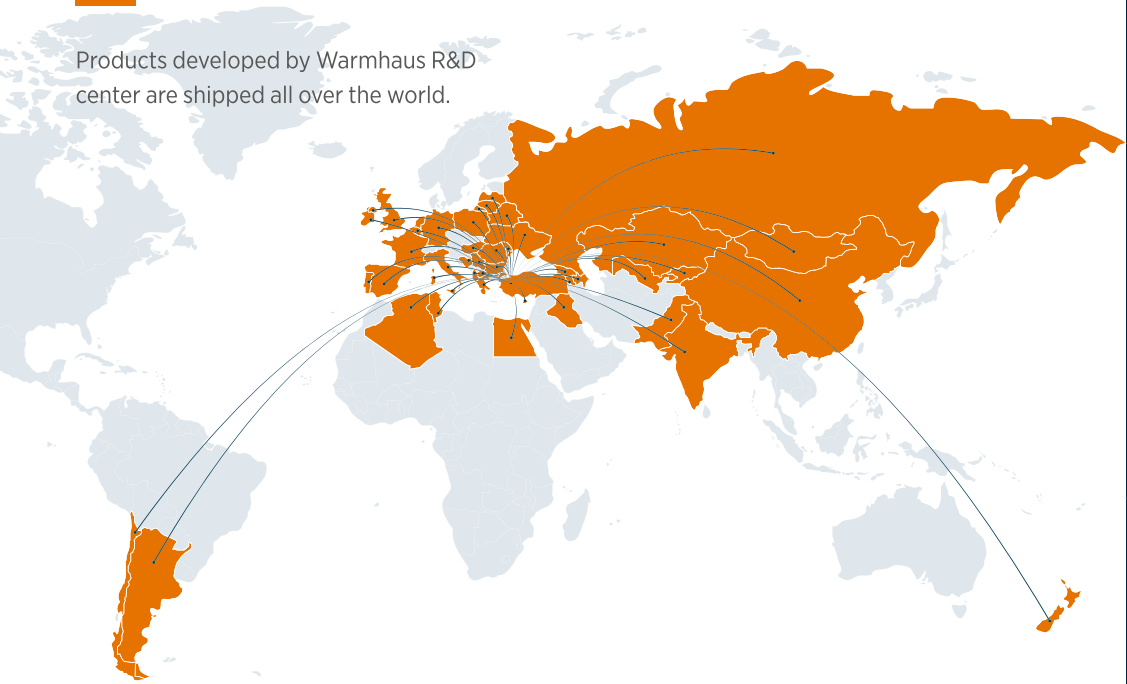LCD Screen

On/ Off
Reset
Service Port

# About Warmhaus

Warmhaus is an affiliate of Beyçelik Holding which produces boilers, high capacity wall hung condensing boilers, water heaters and steel panel radiators with experience in HVAC industry since 1996.

**With modernised production lines and high quality products; Warmhaus warms houses and buildings in more than +55 countries.**

# Global Heating Brand

Products developed by Warmhaus R&D center are shipped all over the world.

- Albania
- Algeria
- Argentina
- Azerbaijan
- Belgium
- Bosnia
- Bulgaria
- Chile
- China
- Egypt
- Estonia
- France
- Georgia
- Germany
- Greece
- Hungary
- India
- Iraq
- Ireland
- Italy
- Jordan
- Kazakhstan
- Kosovo
- Kyrgyzstan
- Latvia
- Lithuania
- Macedonia
- Moldova
- Mongolia
- Netherlands
- Northern Cyprus
- Poland
- Portugal
- Romania
- Russia
- Serbia
- Spain
- Tunisia
- Turkmenistan
- Ukraine
- United Kingdom
- Uzbekistan

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