

# WaterMaster

25 - 35 - 45 - 60 - 70 - 85 - 120 **Evo 2**

25 - 45 - 70 X **Evo 2**

## INSTALLATION, OPERATION & MAINTENANCE



Instructions for the User and the Installer

To be used with the multilingual (ML) manual

## COMPLIANCE WITH REGULATIONS, STANDARDS AND CODES

Installers shall comply with the requirements of applicable local regulations, standards and codes. Their requirements take precedence over the instructions in this manual.

Please consult your ACV/Groupe Atlantic representative for more information.

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We accept no liability should any damage result from the failure to comply with the instructions contained in this technical manual.

This manual contains important information with respect to the installation, the starting up and the maintenance of the appliance.

This manual must be provided to the user, who will read it carefully and keep it in a safe place.

### Essential instructions for safety

- It is prohibited to carry out any modifications to the appliance without the manufacturer's prior and written agreement.
- The product must be installed by a qualified engineer, in accordance with applicable local standards and regulations.
- The installation must comply with the instructions contained in this manual and with the standards and regulations applicable to heating systems.
- Failure to comply with the instructions in this manual could result in personal injury or a risk of environmental pollution.
- The manufacturer declines all liability for any damage caused as a result of incorrect installation or in the event of the use of appliances or accessories that are not specified by the manufacturer.

### Essential instructions for the correct operation of the appliance

- In order to ensure that the appliance operates correctly, it is essential to have it serviced by a certified installer or maintenance contractor every year.
- In case of anomaly, please call your service engineer.
- Faulty parts may only be replaced by genuine factory parts.

### General remarks

- The availability of certain models as well as their accessories may vary according to markets.
- In spite of the strict quality standards that are applied to appliances during production, inspection and transport, faults may occur. Please immediately notify your approved installer of any faults.
- The manufacturer reserves the right to change the technical characteristics and features of its products without prior notice. Please check for an updated version of this manual in the documentation page on the website [www.acv.com](http://www.acv.com).

## GENERAL SAFETY INSTRUCTIONS FOR GAS APPLIANCES

### If you smell gas:

- Immediately isolate the gas supply.
- Open windows and doors to ventilate the area.
- Do not use any electrical appliances and do not operate any switches.
- Immediately notify your gas supplier and/or your installer.

**DO NOT STORE ANY FLAMMABLE OR CORROSIVE PRODUCTS, PAINT, SOLVENTS, SALTS, CHLORIDE PRODUCTS AND OTHER DETERGENT PRODUCTS NEAR THE APPLIANCE.**

**THIS APPLIANCE CAN BE USED BY CHILDREN AGED FROM 8 YEARS OLD AND ABOVE AND PERSONS WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPABILITIES OR LACK OF EXPERIENCE AND KNOWLEDGE, IF THEY HAVE BEEN GIVEN SUPERVISION OR INSTRUCTION CONCERNING THE USE OF THE APPLIANCE IN A SAFE WAY AND UNDERSTAND THE HAZARDS INVOLVED.**

**CLEANING AND USER MAINTENANCE SHALL NOT BE PERFORMED BY CHILDREN WITHOUT SUPERVISION.**

**CHILDREN SHALL NOT PLAY WITH THE APPLIANCE.**

**A BYPRODUCT OF ANY GAS FIRED APPLIANCE IS CARBON MONOXIDE. WE RECOMMEND THE INSTALLATION OF A MINIMUM OF TWO (2) HARD-WIRED CARBON MONOXIDE DETECTORS WITH AN ALARM AND BATTERY BACK-UP; ONE IN THE MECHANICAL ROOM WHERE THE BOILER IS LOCATED AND ANOTHER INSTALLED IN THE LIVING AREA OUTSIDE THE BEDROOM(S) FOR ALL INSTALLATIONS.**

## MEANING OF SYMBOLS

### Symbols on the packaging



Fragile



Keep dry



Keep standing, up



Danger of tipping over



Hand truck or pallet truck required for transport

### Symbols on the appliance



Domestic Hot Water (DHW) circuit



Primary circuit



Electricity

### Symbols in the manual



Essential instruction for safety (of persons and equipment)



Essential instruction for electrical safety (electrical hazard)



Essential instruction for the correct operation of the appliance or the system



General remark



Safety valve connected to the sewage system



Connection to the sewage system



### Essential instruction for the correct operation of the appliance or the system

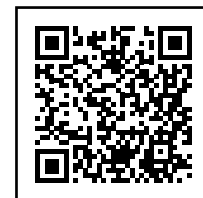
It is recommended to check the system at least every 6 months as follows:

- Check that the system water pressure is at least 0.1 MPa (1 bar) when cold. If the pressure drops below 0.07 MPa (0.7 bar), the built-in pressure sensor blocks the appliance until the pressure exceeds 0.12 MPa (1.2 bar).
- If it is required to top up the system to maintain the minimum recommended water pressure, always turn the appliance off and only add small amounts of water at a time. If a large amount of cold water is added in a hot boiler, the boiler can be damaged definitively.
- If the system needs to be refilled repeatedly with water, please contact your installer.
- Check that there is no water on the floor under the boiler. If there is, please call your installer.
- If a condensate neutralisation system is installed, check it and have it cleaned regularly.
- Check regularly that there is no error message (lockout) on the screen. Refer also to the Troubleshooting table in "In case of Problem..." on page 8 or call your installer as required.



### General remark

- The end user is only allowed to carry out the basic set-up operations mentioned in "Controller Set-up Guide" on page 9, after he has received all relevant instructions from the installer. Any other set-up must be carried out by an approved installer.
- If the end user misuses the installer code to access installer-specific parameters and makes changes that cause a system failure, any warranty claim will be void.
- To get additional information on how to use the ACVMax Touch interface, refer to the Installer's Handbook available at [www.acv.com](http://www.acv.com).



## END OF THE PRODUCT LIFE



At the end of the service life of the product, do not dispose of the product as solid urban waste. Hand it over to a differentiated waste collection centre.

Please contact your installer or your ACV/Groupe Atlantic customer support for more information on the removal and disposal of your appliance.

## MODELS - WATERMASTER® 25 (X) - 35 - 45 (X) - 60 - 70 (X) - 85 - 120 EVO 2

The **WaterMaster® (X) Evo 2** series is a range of condensing water heaters designed for the exclusive production of Domestic Hot Water. The water heaters combine ACV's "Tank-in-Tank" concept with a double primary circuit to reach the high performance of a TOTAL CONDENSATION, double-circuit water heater. Please also consult the detail of components in the "ML" booklet.

The **WaterMaster® X Evo 2** models are equipped with a tank of bigger capacity. This series is especially designed for the production of large volumes of hot water and meets high DHW demands at peak moments. The DHW circuit recirculation connection also guarantees faster delivery of hot water to the whole facility. This series is particularly suitable for places where numerous DHW demands occur simultaneously, such as hotels, sport centers or hospitals.

All the **WaterMaster® (X) Evo 2** models are equipped with a high efficiency charging pump and with an ACV air/gas premix burner with low NOx emissions. During operation, the burner starts automatically as soon as the water heater temperature gets lower than the preset temperature and stops as soon as the preset temperature is reached.

The **WaterMaster® (X) Evo 2** series features a built-in frost protection mechanism: as soon as the flow temperature [NTC1 probe] drops below 7°C, the primary pumps are activated. As soon as the flow temperature is at 5°C, the burner starts up until the flow temperature rises above 15°C. The pumps continue to run for around 10 minutes. The function can be enabled or disabled through the installer menu. When the frost protection is disabled, only the pumps operate.



WaterMaster  
25 - 35 - 45 Evo 2

WaterMaster  
60 - 70 - 85 - 120 Evo 2

WaterMaster  
70 X Evo 2

WaterMaster  
25 X - 45 X Evo 2

## USING THE CONTROL PANEL

- 1- **ACVMax Touch control panel** - It is comprised of an LCD display and soft keys reacting to the touch
- 2- **ACVMax LCD Display** - It is the setup interface of the appliance and indicates the parameter values, the error codes and the set-up status of the parameters. It displays a series of screens, each showing information and/or icons. The main icons are detailed on the following page.
- 3- **Installer function** - By touching simultaneously the up and down arrow keys for 3 seconds, the installer can open the access code window of the ACVMax Touch controller and set up the system once the code has been filled in.
- 4- **Arrow touch keys and OK/Reset touch key** - To browse through the screens and menus of the ACVMax controller, set up the appliance, increase and decrease the displayed values and validate the selections. The OK/Reset key is also used to RESET the appliance after a blocking (following the instructions on the screen).
- 5- **Sleeping mode soft key** - To put the unit in a sleeping mode.



### Essential instruction for electrical safety

When touching the  soft key, the unit is in a sleeping mode but is not isolated from power supply. Therefore, live current is still present in the unit. For your safety, disconnect electrical power supply to the unit before maintenance or making any electrical connections to avoid possible electric shock hazard. Failure to do so can cause serious injury, or death.



### General remark

- When putting in sleeping mode using the  soft key, the appliance will not react to any heat demand. However, the basic appliance protection functions (such as frost protection, etc.) remain active.
  - In addition, the arrow soft keys are no longer illuminated, and the  soft key lighting is dimmed.
- 6- **ON/OFF Master switch** - To turn the appliance ON and OFF. When in OFF position, no power is supplied to the appliance.
- The ACVMax navigation is performed through soft keys that react to the touch and emit a short beep when tapped.

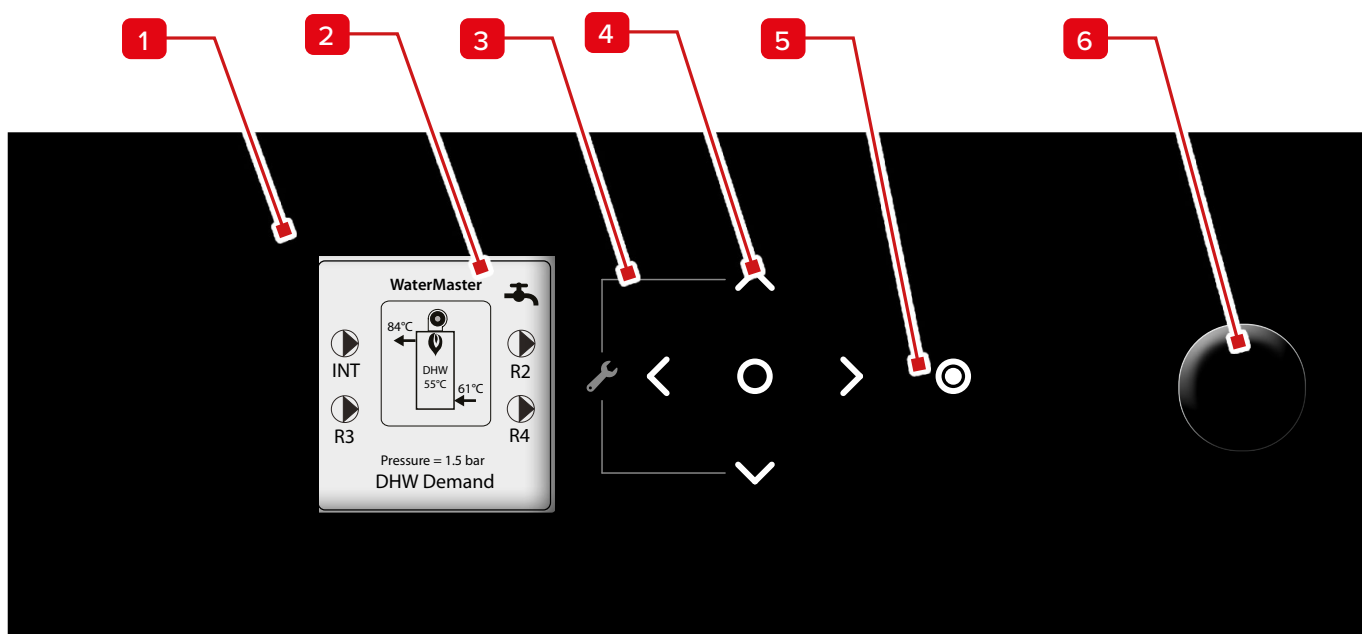


### General remark

**Exert a light and short touch (tap) on the soft keys to activate their function. Holding the touch too long will not generate any reaction from the ACVMax Touch, unless it is a combination of soft keys meant to be touched simultaneously for a determined duration, as instructed in this manual. The arrow keys can also be held longer to increase or decrease values faster.**

Navigation through the menus and selection of items/ modification of values is performed through four arrow soft keys , , , . The center soft key  is used for validation (and for Reset in some cases).

The installer is provided with full access to all available features after simultaneously touching the  and  soft keys for 3 seconds and entering a code.



## HOME SCREEN

The Home Screen presents status information in a very user-friendly way so that the current state of the appliance can be quickly accessed.

- **Screen backlight** - it will illuminate when any soft key is touched, and remain illuminated for five minutes.
- **Screen brightness** - it can be adjusted from the Home screen by touching and holding simultaneously the and soft keys for 2 seconds. Touch the and soft key to increase or decrease the contrast. Touch to end the process.

### Main Icons of the ACVMAX Touch display

- DHW** - indicates information related to Domestic Hot Water.
- Pump** - indicates which pump(s) is/are in operation. The INT pump refers to the internal pump. Pumps marked R2 to R4 correspond to the pumps that can be added to the system using the relay terminals. For more information on the connections and functions, refer to the ML book and to the Installer's Handbook for Evo 2 models (for the installer only).
- Warm Weather Shutdown** - displays on the home screen when the outdoor temperature reaches the Warm Weather Shutdown temperature.
- Home** - to go back to the home screen.
- Back** - to go back to the previous screen.
- Reset** - to reset the system to the factory settings.
- Settings** - to access controller settings (languages, units, etc.).



**Easy Setup** - to quickly adjust the most common settings.



**DHW operation** - to enable/disable the Domestic Hot Water function



**DHW in Eco mode** - DHW is enabled according to the setpoint defined for Eco Mode.



**DHW in Scheduled mode** - DHW is enabled according to the daily schedule defined through the DHW Scheduler.



**Information** - to get information on the appliance.

## LOCKOUT SCREEN

If a problem occurs, the Lockout screen replaces the Home screen. The backlight also remains on as long as the problem is not solved. Pressing any arrow button will return to the Home screen.

Using the code located in the right bottom corner of the screen, troubleshoot the problem, either with the table located in paragraph **"In case of Problem..." on page 8**, or with the Lockout code table in the Installer's Handbook (for the installer only).

**Low Water.** Lockout message. Refer to **"In case of Problem..." on page 8** for more information.

Water pressure has fallen below 0.7 bar. Increase pressure to normal range.

If problem persists, call for service.

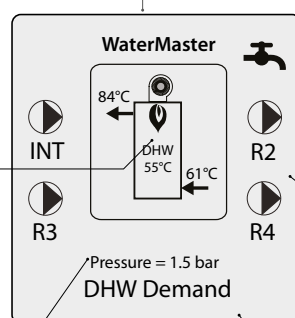
**E37** Lockout reference code. Refer to **"In case of Problem..." on page 8** for more information.

**Body text.** The first sentence describes the lockout, the second sentence gives a possible cure, and the third tells how to reset the lockout.

The appliance is represented in the center of the Home Screen. Basic operating information such as supply and return temperatures are displayed as well as current burner status.

A **flame symbol** is displayed when the unit is fired. The flame size changes to indicate the current firing rate.

**Basic information:** The user can toggle through items using the and soft keys to view the following instantaneous data if available: Pressure, Primary Target temp., Primary temp., Return temp., DHW Setpoint, DHW temp., Scheduled mode, System temp., Date & Time.



**Tap icon:** indicates that a DHW call has been received.

**Circulator icons:** indicate which circulators are currently powered.

**Status line:** displays the current operating state of the appliance. See next page.

## STATUS MESSAGES

- **DHW Demand** - A domestic hot water call has been received.
- **Manual Operation** - The burner or circulators have manually been enabled in the Installer Menu.
- **DHW Burner Delay** - The burner will not fire until the call blocking time has elapsed.
- **DHW Setpoint Reached** - The burner is not fired because the supply/system water temperature exceeds the setpoint. The built-in domestic circulator continues to operate and the burner will fire again once the supply/system water temperature drops below the setpoint.
- **DHW Post Pump** - The domestic hot water circulator is running to remove heat from the WaterMaster at the completion of a call.
- **Freeze Protection** - The burner is fired because the freeze protection feature has been activated. Freeze protection will end once the supply/system water temperature is raised to 15°C.
- **Boiler Protection** - The burner firing rate is being reduced because of an excessive difference between the water heater supply and return temperatures. The firing rate will begin increasing once the temperature difference is less than 25°C.
- **Lockout Description** - The lockout which currently has the WaterMaster shut down is displayed

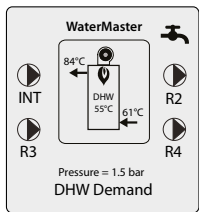
## IN CASE OF PROBLEM...

Check the list of faults and corresponding codes below to get the solution(s). If no solution is provided here, please contact your installer who will determine the correct solution by referring to **"Troubleshooting" on page 40**.

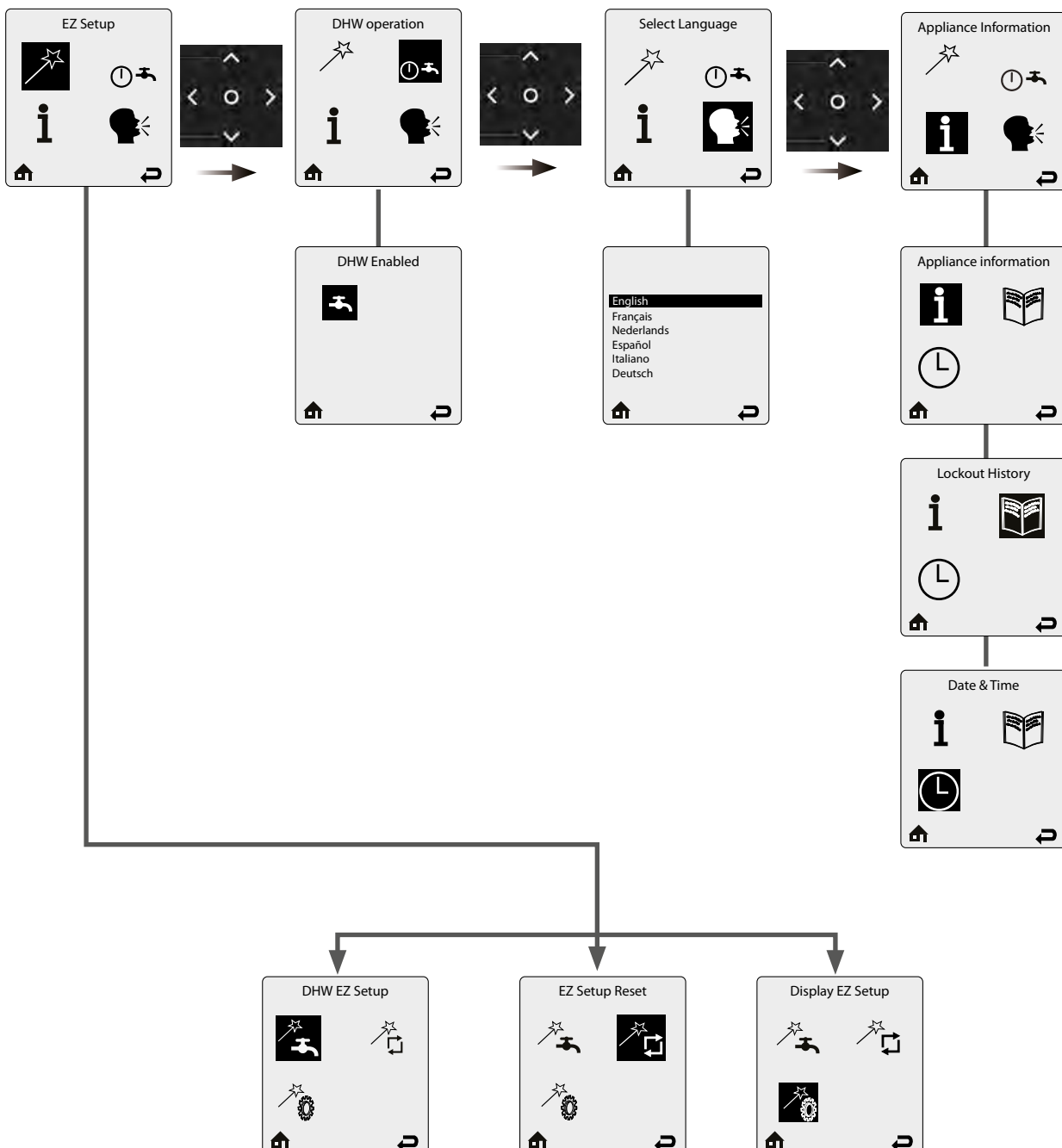
| Fault code | Problem                                                               | Possible Cause(s)                                                                  | Solution                                                                                                                          |
|------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| -          | The appliance does not turn on when pressing the ON/OFF Master switch | No power supply                                                                    | Check the power supply and that the appliance power plug is connected to the network.                                             |
| E 01       | Failed ignition                                                       | The burner failed to light after 5 ignition attempts                               | Check gas supply to the appliance.                                                                                                |
| E 13       | Reset limit reached                                                   | Resets are limited to 5 every 15 minutes                                           | Turn unit OFF and ON to resume normal operation.                                                                                  |
| E 34       | Low voltage                                                           | Line voltage has fallen below an acceptable operating level                        | The appliance will automatically reset once line voltage returns to normal.                                                       |
| E 37       | Low Water                                                             | Water pressure has fallen below an acceptable operating level (0.07 MPa [0.7 bar]) | Refill the system to reach a normal range pressure. The appliance will automatically reset once water pressure returns to normal. |
| E 94       | Internal Display Fault                                                | Display memory error                                                               | Turn appliance off and on to resume normal operation.                                                                             |

## CONTROLLER SET-UP GUIDE

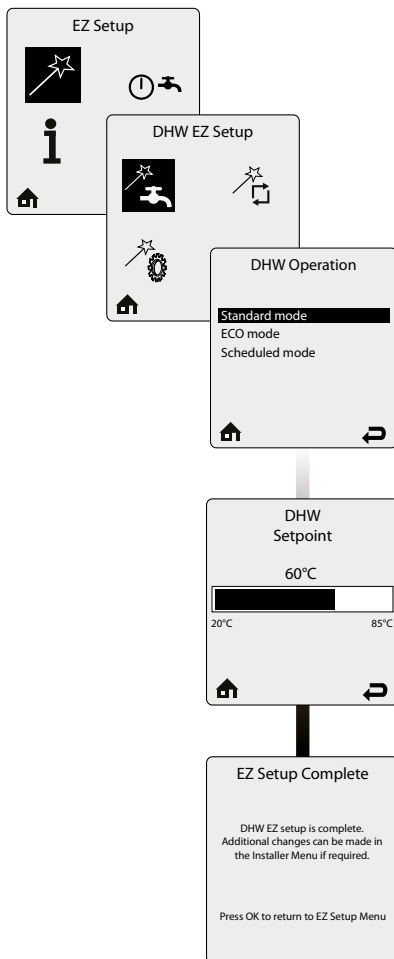
Starting from the Home screen :



- To navigate on the screen, use the **UP**, **DOWN**, **LEFT** and **RIGHT** soft keys .
- Use the **OK** key to validate a selection.
- To increase/decrease values, use the **UP** and **DOWN** keys, or **LEFT** and **RIGHT**, according to the situation



## DHW EZ SETUP



The **DHW EZ Setup** screen allows to access the DHW Mode selection screen, where three modes are available:

1. Standard mode
2. Eco mode
3. Scheduled

Touch the  or  soft keys to select the required mode, then touch  to store the setting.

**Default: Standard Mode.**

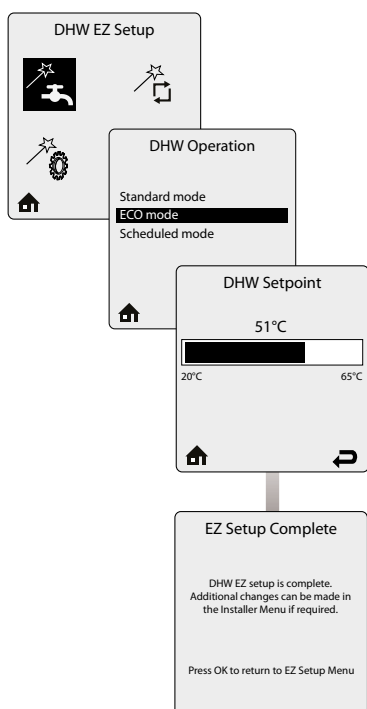
**Standard Mode** opens the DHW Setpoint menu.

This mode allows to operate the appliance at its maximum performance.

**DHW Setpoint** prompts to enter the DHW storage setpoint temperature.

Touch the  or  soft keys to adjust the required temperature setpoint then touch  to store the setting.

**Default: 60°C.**



**ECO Mode** opens the DHW storage setpoint temperature menu.

This mode allows to operate the boiler DHW function at its maximum efficiency.

When the Eco mode is active, the **ECO** icon is displayed on the home screen.

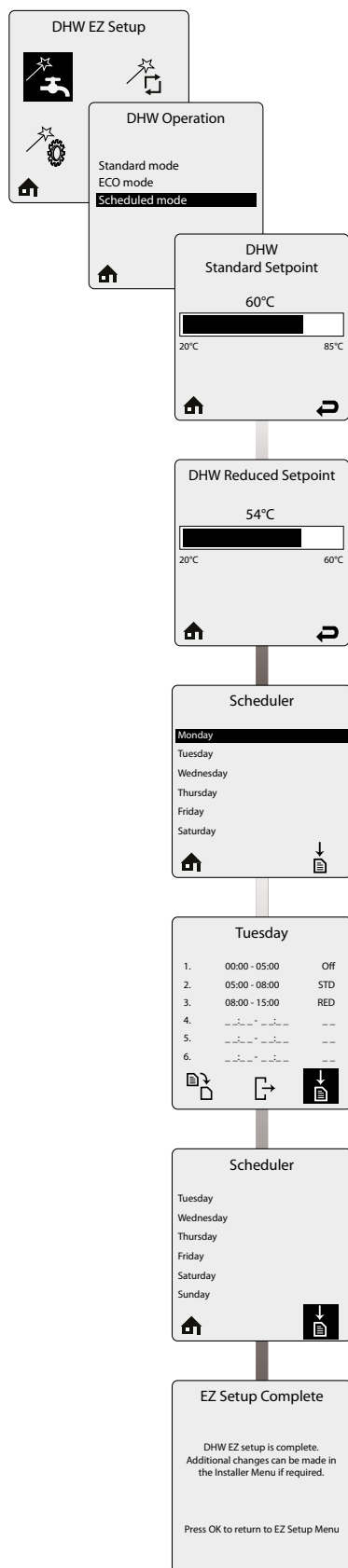
**DHW Setpoint** prompts to enter the DHW storage setpoint temperature.

Touch the  or  soft keys to adjust the required temperature setpoint then touch  to store the setting.

**Default: from 49°C to 55°C, depending on the appliance power.**



**When the ECO function is activated, the antilegionella function should be enabled to ensure that the DHW tank is heated regularly over 65°C to prevent the development of the bacteria.**



**Scheduled** mode opens the DHW Standard Setpoint temperature menu.

This mode allows to operate the appliance according to a schedule defined for each day, using up to six daily presets.

When activated, the  icon is displayed on the home screen.

**DHW Standard Setpoint** prompts to enter the DHW standard setpoint temperature.

Touch the  or  soft keys to adjust the required temperature setpoint then touch  store the setting.

When a period is defined as using the standard setpoint temperature, it displays "STD".

**Default: 60°C.**

**DHW Reduced Setpoint** prompts to enter the DHW reduced setpoint temperature. This is the DHW storage setpoint used when the scheduler is in REDUCED period (e.g. night or low usage period defined in the scheduler).

Touch the  or  soft keys to adjust the required temperature setpoint then touch  store the setting.

When a period is defined as using the reduced setpoint temperature, it displays "RED".

**Default: from 49°C to 55°C, depending on the appliance power.**

**Scheduler** provides a simple way to operate the DHW circuit according to a specific schedule defined for each day. One day can have up to six time periods defined, during which the DHW circuit is either enabled (STD), disabled (Off) or operating in Reduced mode (RED).

Touch the  or  soft keys to select the required day and confirm by touching the  key.

A screen specific to the day opens. Define the start and stop times for up to six periods over one day. Touch the  or  soft keys to move from one position to the next and define the operation times by increments of 15 minutes using the  or  soft keys. Touching the  or  soft key longer will augment the speed at which the time is increased/decreased.

Move to the next line using the  or  soft key. Touching  validates all the changes and moves the cursor to the end of the page, to **Save & Exit** ().

Scroll through the bottom functions of the screen using the  and  soft keys, to either Exit ( ) the function without saving or Copy the settings to the next day ( ).

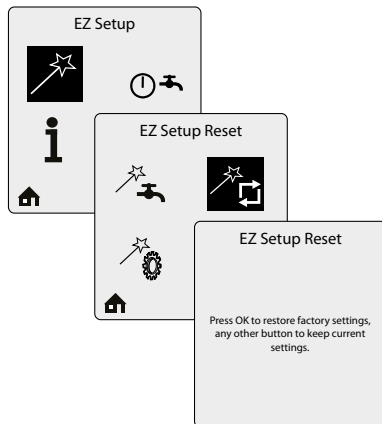
With the **Copy to the Next Day** ( ) function, the settings defined for one day can be repeated to the next day.

Once a day schedule is defined, touch  to go to **Save & Exit** ( ) and touch  again to save the defined schedule.

On the Scheduler main screen, select **Save & Exit** ( ), then touch  to save your parameters and exit the function.

 **Make sure select **Save & Exit** ( ) on the Scheduler main screen and touch the  before leaving the function, or your settings WILL NOT be saved.**

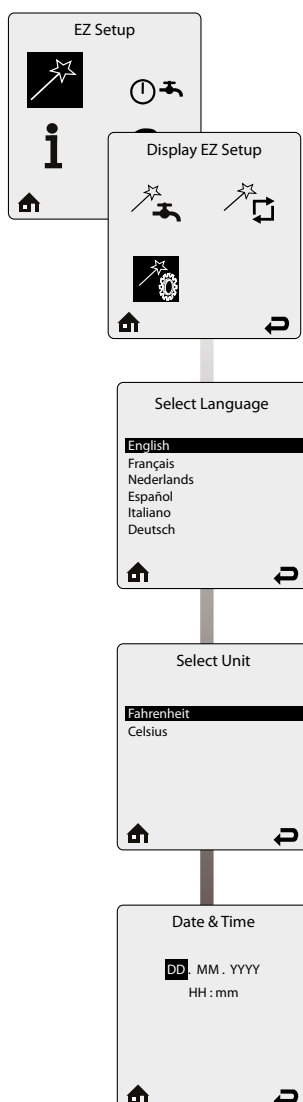
## EASY SETUP RESET



**EZ Setup Reset** allows to reset all EZ setup settings back to the original factory defaults.

Follow the on-screen instructions to reset all EZ setup settings.

## DISPLAY EASY SETUP



**Display EZ Setup** allows to select the interface language (Nine different languages: English, French, Dutch, Spanish, Italian, German, Czech, Polish and Russian).

Touch the  or  soft keys to select the required language then touch  to store the setting.

The Select Unit screen opens to define the interface temperature unit.

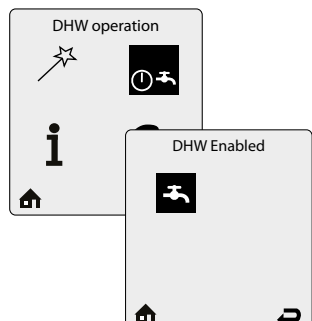
Touch the  or  soft keys to select the required unit then touch  to store the setting.

The Date & Time screen opens that allows to define the current date and time in the appliance.

Touch the  and  soft keys to navigate from one position to the next and  or  to increase/decrease the value.

touch  to store the setting and go back to the EZ setup screen.

## DHW OPERATION



**DHW Operation** provides a simple way to enable/disable the DHW function.

Touch  to toggle between the enabled/disabled status for DHW

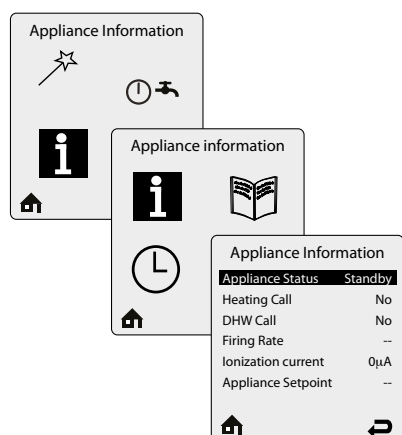
The status (Enabled/Disabled) of the circuit is displayed at the top of the screen.

Using the arrow keys, select the **HOME** or **RETURN** icon at the bottom of the screen to go back either to the home page or to the previous screen respectively.

**Default:**



## APPLIANCE INFORMATION



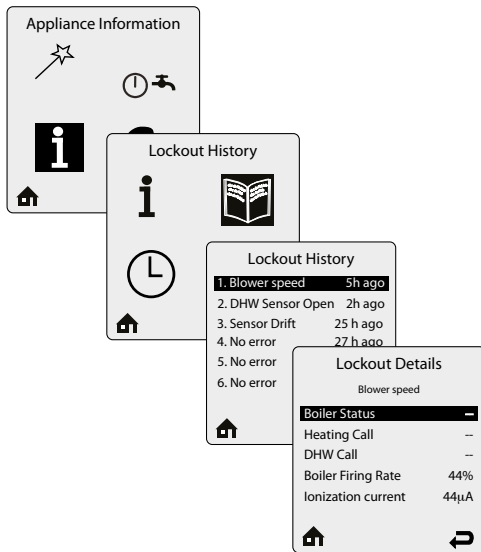
**The Appliance Information** screen provides real time operating information of the WaterMaster. Each line contains an information item followed by its current value. Six lines are displayed on the screen at one time.

Touch the  or  soft keys to scroll through the items. For more information, refer to the Installer's Handbook of the WaterMaster appliances.

Available information:

1. Appliance status
2. Heating call
3. DHW call
4. Firing rate
5. Ionization current
6. Appliance setpoint
7. Supply temp.
8. Return temp
9. Flue temp
10. Outdoor temp.
11. DHW storage temp
12. External modulation signal
13. Water pressure
14. CH ignitions
15. CH runtime
16. DHW ignitions
17. DHW runtime
18. Mix zone temperature

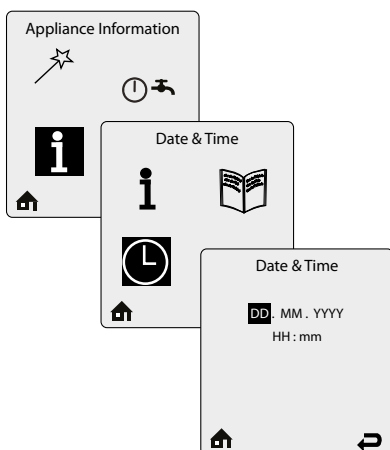
## LOCKOUT HISTORY



**Lockout History** records the last eight lockouts. Six lines are displayed on the Lockout History screen at one time. Each line contains a lockout description followed by how long ago the lockout occurred.

Touch the  or  soft keys to scroll through the items then touch  to select any of them and get more details through the **Lockout Details** screen. For more information, refer to the Installer's Handbook for the Evo 2 appliances.

## DATE & TIME



The Date & Time screen allows to define the current date and time in the appliance.

Touch the  or  and  soft keys to navigate from one position to the next and  or  to increase/decrease the value.

At the last position (minutes), touch  to store the setting and go back to the Appliance Information screen.

## COMBUSTION CHARACTERISTICS

|                                         |               |                   | WaterMaster Evo 2 |       |         |       |            |       |
|-----------------------------------------|---------------|-------------------|-------------------|-------|---------|-------|------------|-------|
| Main Characteristics                    |               |                   | 25<br>25 X        |       | 35      |       | 45<br>45 X |       |
|                                         |               |                   | G20/G25           | G31   | G20/G25 | G31   | G20/G25    | G31   |
| Input (PCI)                             | max           | kW                | 25.0              | 25.0  | 35.0    | 35.0  | 45.0       | 45.0  |
|                                         | min           | kW                | 5.0               | 5.0   | 7.0     | 7.0   | 9.0        | 9.0   |
| DHW efficiency (EN89)                   |               | %                 | 108.7             | 108.7 | 108.5   | 108.5 | 108.5      | 108.5 |
| Combustion efficiency                   | at 100%       | %                 | 98.2              | 98.2  | 98.2    | 98.2  | 97.9       | 97.9  |
| NO <sub>x</sub> (Class 6)               | Max. output   | mg/kWh            | 64                | —     | 55      | —     | 53         | —     |
|                                         | Min. output   | mg/kWh            | 12                | —     | 12      | —     | 21         | —     |
|                                         | Weighted      | mg/kWh            | 21.5              | —     | 26.7    | —     | 30.2       | —     |
| CO                                      | Max. output   | ppm               | 27                | —     | 48      | —     | 63         | —     |
|                                         | Min. output   | ppm               | 6                 | —     | 4       | —     | 4          | —     |
| CO <sub>2</sub>                         | Max. output   | %CO <sub>2</sub>  | 8.8               | 10.1  | 9.2/8.9 | 10.7  | 9.0        | 10.7  |
|                                         | Min. output   | %CO <sub>2</sub>  | 8.3               | 9.3   | 8.8/8.4 | 10.2  | 8.4        | 10.1  |
| O <sub>2</sub>                          | Max. output   | %O <sub>2</sub>   | 5.2               | 7.5   | 4.5/4.9 | 7.4   | 4.8        | 7.2   |
|                                         | Min. output   | %O <sub>2</sub>   | 6.1               | 8.3   | 5.2/5.8 | 8.1   | 5.9        | 8.1   |
| Max gas flow rate<br>G20/G25            | 20 mbar       | m <sup>3</sup> /h | 2.66              | —     | 3.64    | —     | 4.67       | —     |
|                                         | 25 mbar       | m <sup>3</sup> /h | 2.96              | —     | 4.23    | —     | 5.6        | —     |
| Max. gas flow rate G31                  |               | m <sup>3</sup> /h | —                 | 0.98  | —       | 1.4   | —          | 1.77  |
|                                         | 30/37/50 mbar | Kg/h              | —                 | 1.9   | —       | 2.7   | —          | 3.5   |
| Temp of flue gases                      | Normal        | °C                | 60.0              | 60.0  | 58.0    | 58.0  | 64.0       | 64.0  |
|                                         | Max.          | °C                | 120               | 120   | 120     | 120   | 120        | 120   |
|                                         | Min.          | °C                | 32.9              | 32.9  | 29.2    | 29.2  | 30.1       | 30.1  |
| Average temp. of combustion<br>products | DHW mode      | °C                | 52.6              | 52.6  | 52.6    | 52.6  | 52.6       | 52.6  |
| Mass flow rate* of flue gases           | Normal        | g/s               | 11.6              | 11.6  | 15.5    | 15.5  | 21.1       | 20.1  |
|                                         | Min. output   | g/s               | 2.45              | 2.54  | 3.26    | 3.28  | 4.36       | 4.25  |

\* Mass flow rate values were calculated for G20 and G31 with an air factor of 1.3.

| Main Characteristics                 |               |                   | WaterMaster Evo 2 |       |                 |       |
|--------------------------------------|---------------|-------------------|-------------------|-------|-----------------|-------|
|                                      |               |                   | 60                |       | 70              |       |
|                                      |               |                   | G20/G25           | G31   | 70 X<br>G20/G25 | G31   |
| Input (PCI)                          | max           | kW                | 60.0              | 60.0  | 69.9            | 69.9  |
|                                      | min           | kW                | 21.5              | 21.5  | 21.5            | 23.0  |
| DHW efficiency (EN89)                |               | %                 | 107.7             | 107.7 | 107.7           | 107.7 |
| Combustion efficiency                | at 100%       | %                 | 98.8              | 98.8  | 98.1            | 98.1  |
| NOx (Class 6)                        | Max. output   | mg/kWh            | 61.5              | —     | 52              | —     |
|                                      | Min. output   | mg/kWh            | 35.2              | —     | 27              | —     |
|                                      | Weighted      | mg/kWh            | 39.7              | —     | 30.3            | —     |
| CO                                   | Max. output   | ppm               | 28.0              | —     | 56              | —     |
|                                      | Min. output   | ppm               | 0.0               | 10.1  | 2               | —     |
| CO <sub>2</sub>                      | Max. output   | %CO <sub>2</sub>  | 8.9               | 10.6  | 9.0             | 10.6  |
|                                      | Min. output   | %CO <sub>2</sub>  | 8.6               | 10.0  | 8.4             | 10.0  |
| O <sub>2</sub>                       | Max. output   | %O <sub>2</sub>   | 5.0               | 7.4   | 4.8             | 7.2   |
|                                      | Min. output   | %O <sub>2</sub>   | 5.6               | 7.8   | 5.9             | 8.1   |
| Max gas flow rate G20/G25            | 20 mbar       | m <sup>3</sup> /h | 6.2               | —     | 7.4             | —     |
|                                      | 25 mbar       | m <sup>3</sup> /h | 7.2               | —     | 8.6             | —     |
| Max. gas flow rate G31               | 30/37/50 mbar | m <sup>3</sup> /h | —                 | 2.4   | —               | 2.77  |
|                                      |               | Kg/h              | —                 | 4.6   | —               | 4.2   |
| Temp of flue gases                   | Normal        | °C                | 64.0              | 64.0  | 59.0            | 59.0  |
|                                      | Max.          | °C                | 120               | 120   | 120             | 120   |
|                                      | Min.          | °C                | 30.1              | 30.1  | 29.0            | 29.0  |
| Average temp. of combustion products | DHW mode      | °C                | 52.6              | 52.6  | 51.0            | 51.0  |
| Mass flow rate* of flue gases        | Normal        | g/s               | 27.80             | 36.30 | 31.60           | 31.60 |
|                                      | Min. output   | g/s               | 10.30             | 10.00 | 10.19           | 9.98  |

\* Mass flow rate values were calculated for G20 and G31 with an air factor of 1.3.

## WaterMaster Evo 2

| Main Characteristics                 |               |                   | 85      |       | 120     |       |
|--------------------------------------|---------------|-------------------|---------|-------|---------|-------|
|                                      |               |                   | G20/G25 | G31   | G20/G25 | G31   |
| Input (PCI)                          | max           | kW                | 85.9    | 85.9  | 115.0   | 115.0 |
|                                      | min           | kW                | 21.0    | 23.0  | 23.2    | 23.2  |
| DHW efficiency (EN89)                |               | %                 | 107.7   | 107.7 | 107.7   | 107.7 |
| Combustion efficiency                | at 100%       | %                 | 98.0    | 98.0  | 97.5    | 97.5  |
| NOx (Class 6)                        | Max. output   | mg/kWh            | 72      | —     | 58.3    | —     |
|                                      | Min. output   | mg/kWh            | 27      | —     | 23.1    | —     |
|                                      | Weighted      | mg/kWh            | 27.0    | —     | 37.4    | —     |
| CO                                   | Max. output   | ppm               | 75      | —     | 50      | —     |
|                                      | Min. output   | ppm               | 6       | —     | 8       | —     |
| CO <sub>2</sub>                      | Max. output   | %CO <sub>2</sub>  | 9.3     | 10.8  | 9.2     | 10.6  |
|                                      | Min. output   | %CO <sub>2</sub>  | 8.6     | 10.0  | 8.6     | 10.0  |
| O <sub>2</sub>                       | Max. output   | %O <sub>2</sub>   | 5.2/4.6 | 6.9   | 4.5     | 6.9   |
|                                      | Min. output   | %O <sub>2</sub>   | 6.1/5.7 | 8.1   | 5.6     | 7.8   |
| Max gas flow rate<br>G20/G25         | 20 mbar       | m <sup>3</sup> /h | 9.0     | —     | 12.2    | —     |
|                                      | 25 mbar       | m <sup>3</sup> /h | 10.5    | —     | 14.0    | —     |
| Max. gas flow rate G31               | 30/37/50 mbar | m <sup>3</sup> /h | —       | 3.37  | —       | 4.6   |
|                                      |               | Kg/h              | —       | 6.4   | —       | 8.7   |
| Temp of flue gases                   | Normal        | °C                | 62      | 62    | 65      | 65    |
|                                      | Max.          | °C                | 120     | 120   | 120     | 120   |
|                                      | Min.          | °C                | 28.7    | 28.7  | 28.7    | 28.7  |
| Average temp. of combustion products | DHW mode      | °C                | 51.0    | 51.0  | 51.0    | 51.0  |
| Mass flow rate* of flue gases        | Normal        | g/s               | 37.8    | 37.8  | 50.8    | 49.8  |
|                                      | Min. output   | g/s               | 10.19   | 9.98  | 12.14   | 11.5  |

\* Mass flow rate values were calculated for G20 and G31 with an air factor of 1.3.

## ELECTRICAL CHARACTERISTICS



Also refer to "ML" Booklet for Wiring Diagrams.

## WaterMaster Evo 2

| Main Characteristics              |      |   | 25<br>25 X | 35    | 45<br>45 X | 60    | 70<br>70 X | 85    | 120   |
|-----------------------------------|------|---|------------|-------|------------|-------|------------|-------|-------|
| Rated voltage                     | V~   |   | 230        | 230   | 230        | 230   | 230        | 230   | 230   |
| Rated frequency                   | Hz   |   | 50         | 50    | 50         | 50    | 50         | 50    | 50    |
| Electrical consumption            | Max. | W | 101        | 111   | 126        | 200   | 225        | 266   | 352   |
|                                   | Min. | W | 19         | 30    | 40         | 50    | 50         | 46    | 70    |
| Electrical consumption in standby | W    |   | 3          | 3     | 3          | 3     | 3          | 3     | 4     |
| Rated current (Fuse)              | A    |   | 16         | 16    | 16         | 16    | 16         | 16    | 16    |
| Class                             |      |   | IP 20      | IP 20 | IP 20      | IP 20 | IP 20      | IP 20 | IP 20 |

## PRODUCT FICHE DATA

(i.a.w. Commission Delegated Regulation 812/2013)

|                                             |     | WaterMaster Evo 2 |      |      |      |      |      |      |
|---------------------------------------------|-----|-------------------|------|------|------|------|------|------|
|                                             |     | 25                | 35   | 45   | 60   | 70   | 85   | 120  |
| Declared load profile for water heating     |     | XXL               | XXL  | XXL  | XXL  | XXL  | XXL  | XXL  |
| Water heating efficiency class              |     | A                 | A    | A    | A    | A    | —    | —    |
| Water heating efficiency                    | %   | 93.2              | 93.2 | 93.1 | 90.8 | 90.0 | 90.1 | 89.3 |
| Annual electricity consumption              | kWh | 26.8              | 26.0 | 24.9 | 29.3 | 33.7 | 34.8 | 40.8 |
| Annual energy consumption for water heating | GJ  | 20.5              | 20.5 | 20.5 | 21.0 | 21.2 | 21.2 | 21.4 |
| Working temperature                         | °C  | 60                | 60   | 60   | 60   | 60   | 60   | 60   |
| Sound power level indoors LWA               | dB  | 60                | 60   | 59   | 59   | 60   | 61   | 62   |
| Able to work only during off-peak hours     | Y/N | N                 | N    | N    | N    | N    | N    | N    |
| Storage volume                              | l   | 96                | 96   | 96   | 190  | 190  | 190  | 190  |

|                                             |     | WaterMaster Evo 2 |      |      |
|---------------------------------------------|-----|-------------------|------|------|
|                                             |     | 25 X              | 45 X | 70 X |
| Declared load profile for water heating     |     | XXL               | XXL  | XXL  |
| Water heating efficiency class              |     | A                 | A    | A    |
| Water heating efficiency                    | %   | 90.6              | 89.8 | 85.4 |
| Annual electricity consumption              | kWh | 35.6              | 34.9 | 27.8 |
| Annual energy consumption for water heating | GJ  | 21.0              | 21.2 | 22.4 |
| Working temperature                         | °C  | 60                | 60   | 60   |
| Sound power level indoors LWA               | dB  | 60                | 59   | 60   |
| Able to work only during off-peak hours     | Y/N | N                 | N    | N    |
| Storage volume                              | l   | 220               | 220  | 300  |

## HYDRAULIC CHARACTERISTICS

|                      |   | WaterMaster Evo 2 |     |     |     |     |     |     |
|----------------------|---|-------------------|-----|-----|-----|-----|-----|-----|
| Main Characteristics |   | 25                | 35  | 45  | 60  | 70  | 85  | 120 |
| Capacity (primary)   | L | 100               | 100 | 100 | 125 | 125 | 125 | 125 |
| Capacity (DHW)       | L | 96                | 96  | 96  | 190 | 190 | 190 | 190 |

|                      |   | WaterMaster Evo 2 |      |      |
|----------------------|---|-------------------|------|------|
| Main Characteristics |   | 25 X              | 45 X | 70 X |
| Capacity (primary)   | L | 180               | 180  | 205  |
| Capacity (DHW)       | L | 220               | 220  | 300  |

## MAXIMUM OPERATING CONDITIONS

### Nominal Service Pressure

- Primary circuit : .....0.3 MPa (3 bar)
- DHW circuit : ..... 0.7 MPa (7 bar)

### Recommended Service Pressure (tank full of water, with provided safety valves installed)

- Primary circuit : .....0.25 MPa (2.5 bar)
- DHW circuit : ..... 0.65 MPa (6.5 bar)



These values will ensure that the safety valve provided does not open all the time in normal conditions.

### Maximum Service Pressure (In the same conditions, with different safety valves (not provided), product is able to reach the following maximum service pressure)\*

- Primary circuit : .....0.30 MPa (3.0 bar)
- DHW circuit : ..... 0.86 MPa (8.6 bar)

### Maximum Operating Temperatures

- Maximum temperature (primary) : .....87°C
- Maximum temperature (DHW) : .....75°C

### Water Quality

See "Quality of Water" on page 22.

## DHW PERFORMANCE

### Domestic hot water performance\* (cold drink water at 10°C)

|                                     |                            |       | WaterMaster Evo 2 |       |       |
|-------------------------------------|----------------------------|-------|-------------------|-------|-------|
| Operating conditions at 80°C        |                            |       | 25                | 35    | 45    |
| Constant flow at                    | 40 °C [ $\Delta T = 30$ K] | L/h   | 788               | 1 104 | 1 390 |
|                                     | 45 °C [ $\Delta T = 35$ K] | L/h   | 676               | 946   | 1 192 |
|                                     | 60 °C [ $\Delta T = 50$ K] | L/h   | 473               | 662   | 820   |
| Peak flow at                        | 40 °C [ $\Delta T = 30$ K] | L/10' | 361               | 408   | 451   |
|                                     | 45 °C [ $\Delta T = 35$ K] | L/10' | 301               | 339   | 373   |
|                                     | 60 °C [ $\Delta T = 50$ K] | L/10' | 183               | 197   | 224   |
| Peak flow 1st hour at               | 40 °C [ $\Delta T = 30$ K] | L/60' | 1 018             | 1 328 | 1 610 |
|                                     | 45 °C [ $\Delta T = 35$ K] | L/60' | 865               | 1 127 | 1 366 |
|                                     | 60 °C [ $\Delta T = 50$ K] | L/60' | 577               | 749   | 894   |
| Reheat time from 10°C to 80°C       |                            | min.  | 35                | 26    | 23    |
| DHW efficiency at $\Delta T = 30$ K |                            | %     | 105.4             | 105.4 | 103.1 |

|                                     |                            |       | WaterMaster Evo 2 |       |       |       |
|-------------------------------------|----------------------------|-------|-------------------|-------|-------|-------|
| Operating conditions at 80°C        |                            |       | 60                | 70    | 85    | 120   |
| Constant flow at                    | 40 °C [ $\Delta T = 30$ K] | L/h   | 1 841             | 2 087 | 2 534 | 3 402 |
|                                     | 45 °C [ $\Delta T = 35$ K] | L/h   | 1 579             | 1 789 | 2 172 | 2 928 |
|                                     | 60 °C [ $\Delta T = 50$ K] | L/h   | 1 105             | 1 252 | 1 520 | 1 754 |
| Peak flow at                        | 40 °C [ $\Delta T = 30$ K] | L/10' | 689               | 716   | 783   | 900   |
|                                     | 45 °C [ $\Delta T = 35$ K] | L/10' | 570               | 592   | 646   | 676   |
|                                     | 60 °C [ $\Delta T = 50$ K] | L/10' | 335               | 348   | 371   | 440   |
| Peak flow 1st hour at               | 40 °C [ $\Delta T = 30$ K] | L/60' | 2 226             | 2 455 | 2 895 | 3 620 |
|                                     | 45 °C [ $\Delta T = 35$ K] | L/60' | 1 889             | 2 083 | 2 456 | 3 098 |
|                                     | 60 °C [ $\Delta T = 50$ K] | L/60' | 1 261             | 1 391 | 1 638 | 1 847 |
| Reheat time from 10°C to 80°C       |                            | min.  | 20                | 27    | 24    | 23    |
| DHW efficiency at $\Delta T = 30$ K |                            | %     | 103.9             | 103.9 | 103.9 | 102.2 |

\* The hydraulics of the water heater have been tested according to EN 89:2015, and the water heater is classified as a pressure class 3 appliance.

|                                     |                            |       | WaterMaster Evo 2 |       |       |
|-------------------------------------|----------------------------|-------|-------------------|-------|-------|
| Operating conditions at 80°C        |                            |       | 25 X              | 45 X  | 70 X  |
| Constant flow at                    | 40 °C [ $\Delta T = 30$ K] | L/h   | 788               | 1 390 | 2 087 |
|                                     | 45 °C [ $\Delta T = 35$ K] | L/h   | 676               | 1 192 | 1 789 |
|                                     | 60 °C [ $\Delta T = 50$ K] | L/h   | 473               | 820   | 1 252 |
| Peak flow at                        | 40 °C [ $\Delta T = 30$ K] | L/10' | 568               | 617   | 951   |
|                                     | 45 °C [ $\Delta T = 35$ K] | L/10' | 477               | 501   | 816   |
|                                     | 60 °C [ $\Delta T = 50$ K] | L/10' | 327               | 332   | 610   |
| Peak flow 1st hour at               | 40 °C [ $\Delta T = 30$ K] | L/60' | 1 207             | 1 793 | 2 578 |
|                                     | 45 °C [ $\Delta T = 35$ K] | L/60' | 1 035             | 1 537 | 2 210 |
|                                     | 60 °C [ $\Delta T = 50$ K] | L/60' | 724               | 1 076 | 1 547 |
| Reheat time from 10°C to 80°C       |                            | min.  | 61                | 40    | 43    |
| DHW efficiency at $\Delta T = 30$ K |                            | %     | 105.4             | 103.1 | 103.9 |

\* The hydraulics of the water heater have been tested according to EN 89:2015, and the water heater is classified as a pressure class 3 appliance.

## QUALITY OF WATER

### Reference Parameters

To prevent corrosion and the formation of scale which can damage the appliance and the system, make sure that the following water parameters are complied with:

| Heating/Primary Circuit |                               |
|-------------------------|-------------------------------|
| Parameters              | Target values                 |
| Acidity                 | 7,0 < pH < 9,5                |
| Hardness*               | < 20°FH (11,2°dH) (100 mg/l). |
| Conductivity            | < 750 µS/cm (at 25°C)         |
| Chlorides               | < 150 mg/l                    |
| Iron                    | < 0,5 mg/l                    |
| Copper                  | < 0,1 mg/l                    |
| Dissolved oxygen        | < 0,1 mg/l                    |

| DHW Circuit  |                               |
|--------------|-------------------------------|
| Parameters   | Target values                 |
| Acidity      | 6,0 < pH < 8,0                |
| Hardness*    | < 20°FH (11,2°dH) (100 mg/l). |
| Conductivity | < 750 µS/cm (at 25°C)         |
| Chlorides    | < 150 mg/l                    |
| Chlorine     | < 1 mg/l                      |

\* See Reference values in table opposite

## MEASURES TO IMPROVE THE QUALITY OF WATER AND PROTECT THE APPLIANCE AND HYDRAULIC CIRCUITS

### Prevention for the Heating/Primary circuit

- Clean the existing circuits before installing a new appliance:**
  - Before filling, the system must be cleaned in accordance with EN 14336. Chemical cleaning products may be used.
  - If the circuit is in poor condition, or the cleaning carried out is not effective, or the quantity of water in the installation is large (e.g. cascade), a sealed primary system should be created using hydraulic separation. We also recommend to install a hydrocyclone or system filter on the installation side.
- Limit the refill frequency/number**
  - To check the quantity of water introduced into the system, a water meter can be installed on the primary circuit filling connection.
  - Automatic filling systems are not recommended unless the fill frequency is monitored and the level of scale and corrosion inhibitors remain correct.
  - If your installation requires frequent water refills, make sure your system is free of water leaks.
- Limit corrosion using inhibitors (in accordance with EN 14868).**
- Limit the presence of oxygen and sludge in the circuit**
  - A deaerator (on the appliance supply line) and a dirt-separator (upstream of the appliance) must be installed, in accordance with the equipment manufacturers' specifications.\*
  - It is also recommended to use additives that regulate pH and/or inhibit corrosion and scale formation.

- The additives must be used in accordance with the instructions issued by the manufacturer of the water treatment product.
- Use components that are designed to reduce and limit as much as possible the transfer of oxygen through the walls in the primary circuit. For example, PE pipes with an oxygen barrier.

### 5. Check water hardness and use softened water

- A water softener is recommended if the water hardness exceeds 20° fH (11,2° dH) (100 mg/l).
- Check the water hardness regularly and record the values in the maintenance table.
- For very hard water, the softener will reduce hardness (by replacing calcium and magnesium with sodium), but the water will still have too high a conductivity. If necessary, de-mineralised water should be used.

### Reference Values for Water Hardness

| Water hardness | °fH     | °dH       | mg/l CaCO <sub>3</sub> |
|----------------|---------|-----------|------------------------|
| Very soft      | 0 - 7   | 0 - 3,9   | 0 - 70                 |
| Soft           | 7 - 15  | 3,9 - 8,4 | 70 - 150               |
| Fairly hard    | 15 - 25 | 8,4 - 14  | 150 - 250              |
| Hard           | 25 - 42 | 14 - 23,5 | 250 - 420              |
| Very hard      | > 42    | > 23,5    | > 420                  |

### 6. Check the characteristics of water

- Treat the water if the values of the parameters measured are out of tolerance. Refer to parameters opposite.

### 7. Use de-mineralised water

- The use of de-mineralised water is recommended when filling new (or previously cleaned) systems, as it removes the problems associated with the formation of limescale.
- By eliminating the presence of scale, the associated risks (sludge) are avoided and service life is increased.
- By definition, de-mineralised water has a very low conductivity. Corrosion kinetics are therefore considerably slowed down.
- On the other hand, de-mineralised water tends to become acidic (pH < 6). If the pH is too low, it is necessary to use additives to modify the pH and inhibit corrosion.

### 8. If antifreeze is used in the circuit, observe the conditions of use prescribed by the propylene glycol supplier.

- Consult the manufacturer to determine the compatibility of the antifreeze with the materials of the boiler.
- Using antifreeze in the primary circuit will reduce heating performance. The higher the antifreeze concentration, the lower the performance.
- If antifreeze is used in the primary circuit, it is particularly important that it is inhibited. The acidity (pH) of the water should be measured periodically to ensure that there is no gradual acidification.
- In case of problem of concentration or pH, follow the supplier's recommendations to adjust these parameters in order to avoid damaging the equipment (corrosion or accumulation of sludge).

- When the primary circuit is used to heat domestic hot water, the antifreeze must comply with public health regulations and be non-toxic. A food-grade propylene glycol is recommended. It should be diluted in the proportions recommended by the supplier, in compliance with local regulations.
  - When using antifreeze is recommended, unless otherwise indicated by the product supplier, the proportion of antifreeze varies between 20% and 50%, in order to protect the plant effectively against corrosion and scaling.
  - To limit the risks, it is necessary to prepare the water/glycol mixture before injecting it into the system.
  - Should the appliance be connected to consumers (e.g. radiators or external water tank), a hydraulic separation is recommended between the heat generator circuit and the consumer circuit using a plate heat exchanger or similar.
- 9. If the water needs to be softened, check that the water softener is working properly**
- A softener replaces calcium with sodium in the water to limit the formation of limescale. To do this, the softener must periodically regenerate its sodium reserve, using salt brine.
  - When a softener is required to reduce water hardness, its operation must not cause corrosion problems.
  - If the softener is of poor quality, is poorly maintained, suffers a technical breakdown or if a component deteriorates, salt could be released into the circuit. If salt is released back into the system, the chloride level will occasionally rise, creating the risk of corrosion.

## Prevention for the Domestic Hot Water Circuit

To protect your plant and prevent any risk of corrosion, it is important to check the characteristics of the water supplied to the boiler. As a reminder, in the case of tap water, target values are indicated for a range of components in Water Supply (Water Quality) Regulations 2016. It is particularly important to:

- 1. Limit the presence of carbonates in water**
  - A water softener is recommended if the water hardness exceeds 20° fH (11.2°dH) (100 mg/l).
  - Check water hardness regularly (see reference table on previous page).
- 2. Check the characteristics of water**
  - Treat the water if the values of the measured parameters are out of tolerance. Refer to previous page for reference parameters.

## Reasons why Water Quality will Deteriorate:

### *Influence of oxygen and carbonates in the plant*

Oxygen and dissolved gasses in the water of the primary circuit contribute to the oxidation and the corrosion of the system components that are made of ordinary steel (radiators, heat exchanger of a boiler or water heater, tank, etc.). The presence of carbonates and carbon dioxide in the water leads to the formation of scale (carbonates) on the hot surfaces of the system, including the exchanger of the appliance. These deposits in the heat exchanger reduce the water flow rate and thermally insulate the exchange surfaces, which is likely to damage them.

### *Sources of Oxygen and Carbonates in the plant*

The primary circuit is a closed circuit; the water it contains is therefore isolated from the mains. When maintaining the plant or refilling the circuit, water renewal results in the addition of oxygen and carbonates in the primary circuit. The larger the water volume in the system, the larger the addition. Hydraulic components without an oxygen barrier (e.g. PE pipes and fittings) also allow oxygen to enter the system.

### *Influence of additives in the plant*

Depending on their design, primary circuits are sometimes subjected to a cold environment with sub-zero temperatures. The use of antifreeze products, particularly glycol-based products, is then necessary (see paragraph 7). It is advisable to limit the use of this type of additive to cases where it is necessary. These products degrade over time with heat, leading to the formation of acid by-products. This acidification of the primary water leads to corrosion and accelerated deterioration of the steel casing. The use of inhibited antifreeze (i.e. containing corrosion inhibitors) and special monitoring are therefore necessary.

### *Influence of water hardness*

The presence of calcium and magnesium in the water causes scale deposits to build up in the system over the long term. These deposits appear on the hot spots of a storage tank, such as the electrical heating elements. But they also appear on the stainless steel casing when it comes into contact with the primary water. The effect of these deposits is to reduce the flow rate of water (through the I/O tubes) and to thermally insulate the heat exchange surfaces. Over time, they can lead to the formation of under-deposit corrosion, which causes damage.

### *Influence of acidity, chlorine and chlorides*

The stainless steel used for our stainless steel tanks has been specially selected for its corrosion-resistant properties. Particular care is taken during installation to preserve its properties. This intrinsic property comes from the passive layer that naturally protects stainless steel, working as a unique barrier.

Chlorine-based compounds (chlorine or chloride) are capable of destroying this protective barrier. Chlorine and chloride levels must therefore be carefully monitored to ensure that they do not exceed the values given in this document.

The acidity of the water (pH index) is a factor capable of accelerating the corrosion mechanisms described below. It is therefore important to maintain acidity within the ranges indicated in this document.

## CHIMNEY CHARACTERISTICS

|                                                                                                                                  |            |    | WaterMaster Evo 2                                |            |            |            |            |            |             |             |
|----------------------------------------------------------------------------------------------------------------------------------|------------|----|--------------------------------------------------|------------|------------|------------|------------|------------|-------------|-------------|
| Main Characteristics                                                                                                             |            |    | 25<br>25 X                                       |            | 35         |            | 45<br>45 X |            |             |             |
| Air/flue pipe Ø                                                                                                                  | concentric | mm | 80/125                                           |            | 80/125     |            | 80/125     |            |             |             |
|                                                                                                                                  | parallel   | mm | 80/80                                            |            | 80/80      |            | 80/80      |            |             |             |
| Max. allowed flue pipe pressure drop                                                                                             |            | Pa | 95                                               |            | 130        |            | 130        |            |             |             |
| Max recommended length of concentric flue pipe (corresponding length in meters of straight pipes) * Ø 80/125, terminal included  |            |    | 60                                               |            | 39         |            | 22         |            |             |             |
| Max recommended length of concentric flue pipe (corresponding length in meters of straight pipes) * Ø 100/150, terminal included |            |    | 130***                                           |            | 90***      |            | 53***      |            |             |             |
| Max recommended length of dual flow (corresponding length in meters of straight pipes) *                                         |            |    | Rigid Ø 80                                       | Flex. Ø 80 | Rigid Ø 80 | Flex. Ø 80 | Rigid Ø 80 | Flex. Ø 80 | Rigid Ø 100 | Flex. Ø 100 |
|                                                                                                                                  |            |    | 56                                               | 26         | 37         | 17         | 19         | 9          | 76          | 34          |
| Available connection types                                                                                                       |            |    | B23 - B23P - C13 - C33 - C53** - C63 - C83 - C93 |            |            |            |            |            |             |             |
| * See page 27 to calculate the flue pipe length.                                                                                 |            |    |                                                  |            |            |            |            |            |             |             |
| ** A C53 connection of the WaterMaster Evo 2 appliances requires an optional accessory.                                          |            |    |                                                  |            |            |            |            |            |             |             |
| *** Not recommended - For more information, please contact your ACV/Groupe Atlantic representative.                              |            |    |                                                  |            |            |            |            |            |             |             |

|                                                                                                                                  |            |    | WaterMaster Evo 2                                |             |             |             |             |             |             |             |  |
|----------------------------------------------------------------------------------------------------------------------------------|------------|----|--------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| Main Characteristics                                                                                                             |            |    | 60                                               |             | 70<br>70 X  |             | 85          |             | 120         |             |  |
| Air/flue pipe Ø                                                                                                                  | concentric | mm | 100/150                                          |             | 100/150     |             | 100/150     |             | 100/150     |             |  |
|                                                                                                                                  | parallel   | mm | 100/100                                          |             | 100/100     |             | 100/100     |             | 100/100     |             |  |
| Max. allowed flue pipe pressure drop                                                                                             |            | Pa | 82                                               |             | 110         |             | 160         |             | 170         |             |  |
| Max recommended length of concentric flue pipe (corresponding length in meters of straight pipes) * Ø 80/125, terminal included  |            |    | —                                                |             | —           |             | —           |             | —           |             |  |
| Max recommended length of concentric flue pipe (corresponding length in meters of straight pipes) * Ø 100/150, terminal included |            |    | 16                                               |             | 20          |             | 19          |             | 18          |             |  |
| Max recommended length of dual flow (corresponding length in meters of straight pipes) *                                         |            |    | Rigid Ø 100                                      | Flex. Ø 100 | Rigid Ø 100 | Flex. Ø 100 | Rigid Ø 100 | Flex. Ø 100 | Rigid Ø 100 | Flex. Ø 100 |  |
|                                                                                                                                  |            |    | 25                                               | 20          | 17          | 8           | 17          | 8           | 9           | 4           |  |
| Available connection types                                                                                                       |            |    | B23 - B23P - C13 - C33 - C53** - C63 - C83 - C93 |             |             |             |             |             |             |             |  |
| * See page 27 to calculate the flue pipe length.                                                                                 |            |    |                                                  |             |             |             |             |             |             |             |  |
| ** A C53 connection of the WaterMaster Evo 2 appliances requires an optional accessory.                                          |            |    |                                                  |             |             |             |             |             |             |             |  |
| *** Not recommended - For more information, please contact your ACV/Groupe Atlantic representative.                              |            |    |                                                  |             |             |             |             |             |             |             |  |



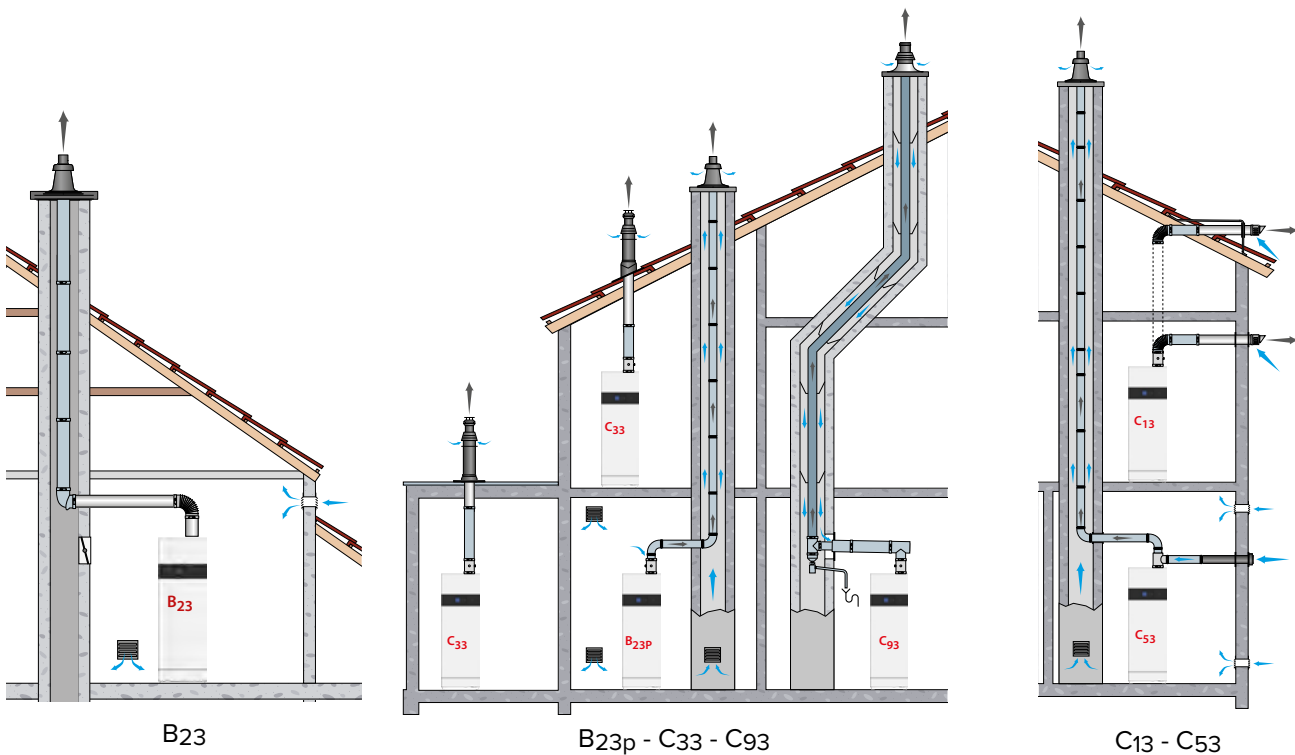
## Essential instruction for safety (of persons and equipment)

Make sure that the air inlet openings remain unobstructed at all times and that air and flue pipe connections are tight and secure.



## Essential instruction for the correct operation of the appliance or the system

It is mandatory to ventilate the boiler room. The high or low air vent opening dimensions depend on the boiler power and the boiler room size. Refer to the local regulations in force.



## FLUE PIPE CONNECTION TYPES



### Essential instruction for the correct operation of the appliance or the system

- For the installation of flue systems, make sure to comply with all the requirements of applicable local regulations, standards and codes, and with the installation instructions set out in this manual.
- It is mandatory to use approved flue systems to connect the appliance. Refer to *"Approved Chimney Components"* on page 29.
- For information about building a flue cascade system, please refer to the Cascade manual provided with this appliance.

**B23** Connection to an exhaust duct that discharges the combustion products outside the room where it is installed, with the combustion air being drawn directly from the boiler room.

**C13** Connection using pipes fitted with a horizontal terminal that simultaneously takes in combustion air for the burner and discharges combustion products outside through openings that are either concentric or close enough together to be subjected to similar wind conditions, i.e. openings shall fit inside a square of 50 cm for appliances up to 70 kW and inside a square of 100 cm for appliances above 70 kW.

**C33** Connection using pipes fitted with a vertical terminal that simultaneously takes in fresh air for the burner and discharges combustion products outside through openings that are either concentric or close enough together to be subjected to similar wind conditions, i.e. openings shall fit inside a square of 50 cm for appliances up to 70 kW and inside a square of 100 cm for appliances above 70 kW.

**C53** Connection to separate ducts for supplying combustion air and discharging combustion products; these ducts may end in zones with different pressure levels, but are not allowed to be installed on opposite walls of the building.

### C63

Type C appliance meant to be connected to a system for supplying combustion air and discharging combustion products, that is approved and sold separately (**Prohibited in some countries (e.g. Belgium) - refer to local regulations and standards in force**). Terminals for the supply of combustion air and for the evacuation of combustion products are not allowed to be installed on opposite walls of the building. See also the following additional specifications:

- Maximum allowable draught is 200 Pa.
- Maximum allowable pressure difference between combustion air inlet and flue gas outlet (including wind pressures) is as follows: 95 Pa (WM 25 - Evo 2), 130 Pa (WM 35 - 45 (X) Evo 2), 82 Pa (WM 60 Evo 2), 110 Pa (WM 70 (X) Evo 2), 160 Pa (WM 85 Evo 2) and 170 Pa (WM 120 Evo 2).
- Condensate flow is allowed into the appliance.
- Maximum allowable recirculation rate of 10% under wind conditions.

### C83

Connection using a single or double duct system. The system is made of a normal exhaust flue duct that discharges the combustion products. The appliance is also connected through a second duct fitted with a terminal, that supplies the burner with fresh outdoor air. Please contact your ACV/Groupe Atlantic representative for the meters of flue pipes that can be used to connect the appliance(s).

### C93

Connection using an individual system whose combustion product exhaust duct is installed in an exhaust duct that is integral with the building. The appliance, the exhaust duct and the terminal units are certified as an inseparable assembly. Minimum usable diameter for the vertical duct supplying the combustion air is 100 mm.



**The C93 configuration enables airtight operation in a pre-existing chimney. The combustion air crosses the space between the tubing and the pre-existing chimney. Make sure to clean the pre-existing chimney thoroughly prior to installation, especially if there is soot or tar residue. Make sure that there is a clearance area for the combustion air at least equivalent to the area that would have been provided by separate concentric ducts or air intake ducts.**

## CALCULATION OF THE FLUE PIPE LENGTH



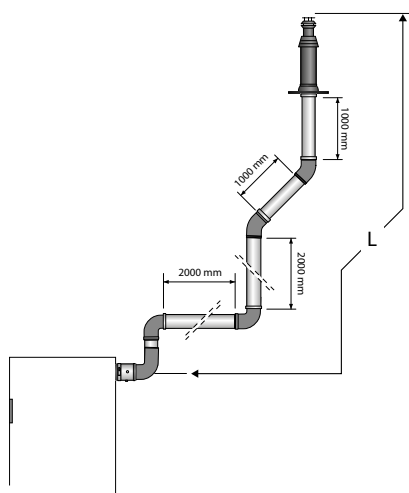
When connecting the flue pipes, make sure not to exceed the maximum flue pipe length, recommended for the product, or the system pressure might decrease.

The flue pipe length can be calculated using the method shown below. Please refer to the tables below indicating the values in meters, applied to each of the connection components. Then compare the calculation result to the recommended maximum flue pipe length indicated in the table on previous page.



The equivalent length for pipes equipped with a measuring unit is equal to a 1 meter straight pipe

|                   | Flue pipe length (L)<br>(corresponding length in meters of straight pipe) |                                                   |                                                          |                                                    |
|-------------------|---------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|----------------------------------------------------|
|                   | WaterMaster Evo 2                                                         |                                                   |                                                          |                                                    |
|                   | 25 (X) - 35 - 45 (X)                                                      |                                                   | 25 (X) - 35 - 45 (X) - 60 - 70 (X) - 85 - 120            |                                                    |
|                   | Concentric flue pipe<br>Ø 80/125 mm<br>(Terminal incl.)                   | Parallel flue pipe<br>Ø 80 mm<br>(Terminal incl.) | Concentric flue pipe<br>Ø 100/150 mm<br>(Terminal incl.) | Parallel flue pipe<br>Ø 100 mm<br>(Terminal incl.) |
| 1 m straight pipe | 1 m                                                                       | 1 m                                               | 1 m                                                      | 1 m                                                |
| 90° elbow         | 2 m                                                                       | 2.3 m                                             | 2.2 m                                                    | 3.7 m                                              |
| 45° elbow         | 1 m                                                                       | 1 m                                               | 1.3 m                                                    | 2.3 m                                              |

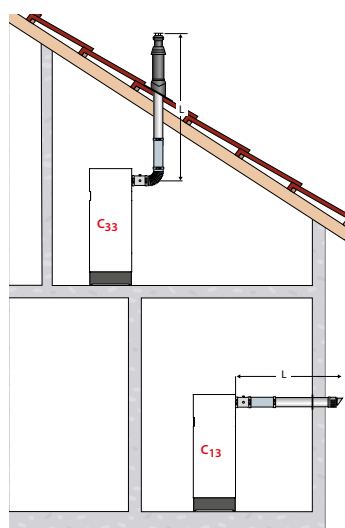


### Example of verification of the flue pipe length (L) in a concentric flue pipe system for WaterMaster 35 Evo 2 (80/125):

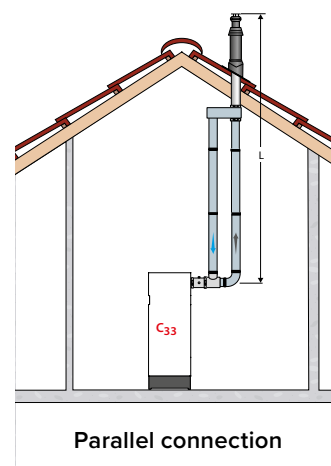
The figure above shows an assembly is comprised of:  
1 pipe with a measurement unit + 3 x 90° elbows +  
6 meters of straight pipes + 2 x 45° elbows

- Using the above table, calculate the length in meters of the whole flue pipe assembly:  
 $1 + (3 \times 2) + (6 \times 1) + (2 \times 1) = 15 \text{ m}$
- Compare the resulting value with the maximum length (39 m).

This flue pipe length is within the recommended range.



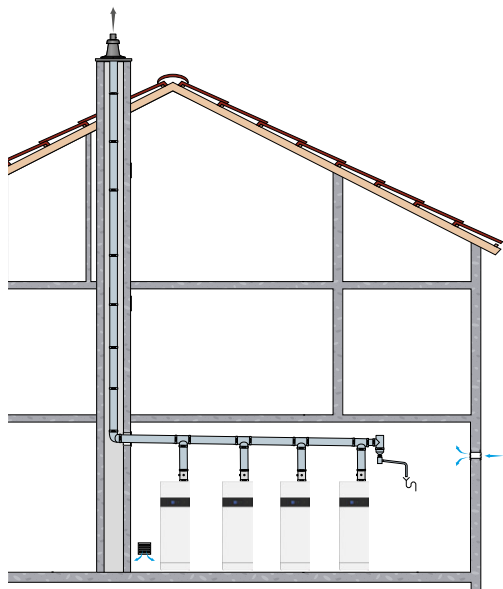
Concentric connection



Parallel connection

## FLUE CASCADE

- It is mandatory to use approved chimney components to connect the appliances.
- Make sure to install an approved flue cascade kit, with a built-in non return valve. Check the table on page 31 for the list of approved components.



|            | Ø 150             | Ø 200 |
|------------|-------------------|-------|
| Elbow type | Equivalent Length |       |
| 45° [M]    | 1.7m              | 3.8m  |
| 90° [M]    | 4.0m              | 5.8m  |

## CASCADE : CALCULATION OF THE MAXIMUM LENGTH OF FLUE PIPES

| Qty | Models*                     | Maximum length in meters. |              |        |
|-----|-----------------------------|---------------------------|--------------|--------|
|     |                             | Dn 150                    | Dn 150/200** | Dn 200 |
| 2   | 25 - 35 - 45 - 60 - 70 - 85 | 30                        | 30           | 30     |
|     | 120                         | —                         | 30           | 30     |
| 3   | 25 - 35 - 45                | 30                        | 30           | 30     |
|     | 60 - 70                     | 25                        | 30           | 30     |
|     | 85                          | 26                        | 30           | 30     |
|     | 120                         | —                         | —            | —      |
| 4   | 25 - 35 - 45                | 30                        | 30           | 30     |
|     | 60 - 70                     | —                         | 30           | 30     |
|     | 85                          | —                         | 30           | 30     |
|     | 120                         | —                         | —            | —      |
| 5   | 25 - 35 - 45                | 30                        | 30           | 30     |
|     | 60 - 70                     | —                         | 30           | 30     |
|     | 85                          | —                         | 6            | 30     |
|     | 120                         | —                         | —            | —      |
| 6   | 25 - 35                     | 30                        | 30           | 30     |
|     | 45                          | 16                        | 30           | 30     |
|     | 60 - 70                     | —                         | —            | 30     |
|     | 85                          | —                         | —            | 13     |
|     | 120                         | —                         | —            | —      |

\* This table is for systems built with WaterMaster (X) Evo 2 appliances of identical power. For any other configuration, please contact your ACV/Groupe Atlantic Customer Support.

\*\*Dn 150/200 : Hor. = 150 mm, Vert.=200 mm

## APPROVED CHIMNEY COMPONENTS

| Boiler Models                        | Connection type | Material / Ø mm  | Components *                                                     |                                                                                    |                                                      |                              |                                                                |                                                                                                |                                                                                                              |
|--------------------------------------|-----------------|------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
|                                      |                 |                  | Terminals                                                        | Pipes                                                                              | Extensions                                           | Bends                        | Measurement and condensate recovery                            | Accessories                                                                                    | Adapters                                                                                                     |
| WaterMaster<br>25(X)-35-45(X) Evo 2  | C93             | PP Flex<br>Ø 80  | 1. Set C93 Ø 80/125                                              | 13. Flexible PP PP Ø 80,<br>25 m                                                   | —                                                    | —                            | —                                                              | 50. Connection sheath<br>for Ø 80/125, Ø 80<br>51. Connector Flex-Flex<br>PP Ø 80              | —                                                                                                            |
|                                      |                 |                  | 2. Roof Terminal<br>3. Wall terminal kit<br>4. Wall terminal Kit | 14. Length 250 mm<br>15. Length 500 mm<br>16. Length 1000 mm<br>17. Length 2000 mm | 30. Sliding extension,<br>straight + 50 to 130<br>mm | 34.43° - 45°<br>35.87° - 90° | 44. Measuring tube<br>45. Measuring T-piece<br>with inspection | 52. Weather Slate<br>Steep<br>53. Bracket Ø 125 mm<br>54. Weather slate, flat<br>roof Ø 390 mm | 60. Expander SST/Alu<br>Ø 80/125 mm - 2 x Ø<br>80 mm<br>61. Expander PP/ALU,<br>Ø 60/100 mm - Ø<br>80/125 mm |
| WaterMaster<br>60-70(X)-85-120 Evo 2 | C93             | PP Flex<br>Ø 100 | 5. Set C93 Ø 100/150                                             | 18. Flexible PP Ø 100,<br>25 m                                                     | —                                                    | —                            | —                                                              | 55. Connection sheath<br>Alu for Ø 100/150<br>56. Adapter Flex-Flex<br>PP Ø 100                | —                                                                                                            |

\* ACV/Groupe Atlantic references are provided in a separate cross-reference table attached to this manual. Also refer to the latest ACV/Groupe Atlantic Price list for more information and the correct references.

\*\* UK only

| Components *                         |                 |                         |                                                                                                        |                                                                                                                                              |                                                |                                                                                            |                                                                     |                                                                                                        |                                                                                                                                               |
|--------------------------------------|-----------------|-------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Boiler Models                        | Connection type | Material / Ø mm         | Terminals                                                                                              | Pipes                                                                                                                                        | Extensions                                     | Bends                                                                                      | Measurement and condensate recovery                                 | Accessories                                                                                            | Adapters                                                                                                                                      |
| WaterMaster<br>60-70(X)-85-120 Evo 2 | C13<br>C33      | PP - Galva<br>Ø 100/150 | 6. Roof terminal<br>7. Wall terminal kit                                                               | 19. Length 250 mm<br>20. Length 500 mm<br>21. Length 1000 mm<br>22. Length 2000 mm                                                           | 31. Sliding extension, straight + 50 to 130 mm | 36. 43° - 45°<br>37. 87° - 90°                                                             | 46.Measuring tube<br>47.Measuring T-piece with inspection           | 57. Weather Slate<br>Steep 25°-45°<br>58. Bracket Ø 150 mm<br>59. Weather Slate,<br>Flat roof Ø 430 mm | 62. Concentric to parallel<br>Ø 100/150 mm - 2 x Ø 100 mm                                                                                     |
|                                      |                 |                         | 8. Roof terminal, flue Ø 150<br>9. Wall terminal kit, flue, Ø 150<br>10. Wall terminal kit, air, Ø 100 | 23. Length, flue, Ø 150, 250 mm<br>24. Length, flue, Ø 150, 500 mm<br>25. Length, flue, Ø 150, 1000 mm<br>26. Length, air, PVC Ø 100, 500 mm | 32. Sliding extension, flue, Ø 150             | 38. Flue, Ø 150, 45°<br>39. Flue, Ø 150, 90°<br>40. Air, Ø 100, 45°<br>41. Air, Ø 100, 90° | 48.Element for measurement and recovery of condensates, flue, Ø 150 | 57. Weather Slate<br>Steep 25°-45°<br>58. Bracket Ø 150 mm<br>59. Weather Slate,<br>Flat roof Ø 430 mm | 62. Concentric to parallel adapter Ø 100/150 mm - 2 x Ø 100 mm<br>63. Expander Ø 100 - Ø 150 mm mandatory<br>64. Adapter Ø 80 - Ø 100 mm, air |
| WaterMaster<br>60-70(X)-85-120 Evo 2 | C13<br>C33      | SST - SST<br>Ø 100/150  | 11. Roof terminal<br>12. Wall terminal                                                                 | 27. Length, 250 mm<br>28. Length, 500 mm<br>29. Length, 1000 mm                                                                              | 33. Sliding extension 280 to 395 mm            | 42. 43° - 45°<br>43. 87° - 90°                                                             | 49.Element for measurement and recovery of condensates, flue        | 57. Weather Slate<br>Steep 25°-45°<br>58. Bracket Ø 150 mm<br>59. Weather Slate,<br>Flat roof Ø 430 mm | 62. Concentric to parallel adapter Ø 100/150 mm - 2 x Ø 100 mm                                                                                |
|                                      |                 |                         |                                                                                                        |                                                                                                                                              |                                                |                                                                                            |                                                                     |                                                                                                        |                                                                                                                                               |

\* ACV/Groupe Atlantic references are provided in a separate cross-reference table attached to this manual. Also refer to the latest ACV/Groupe Atlantic Price list for more information and the correct references.

\*\* UK only

| Evo 2 Models             | Material / Ø mm | Cascade Components *     |                           |                                        |                                       |                                          |
|--------------------------|-----------------|--------------------------|---------------------------|----------------------------------------|---------------------------------------|------------------------------------------|
|                          |                 | Terminals                | Pipes                     | Bends                                  | Accessories                           | Adapters                                 |
| 25-35-45-60-70-85-120 kW | Cascade Ø 150   | 85. Roof terminal, Ø 150 | 86. Length 1000 mm, Ø 150 | 88. Support, 90°, Ø 200                | 89. Profile for 90° bend              | 93. Adapter Ø 150-200 mm                 |
|                          |                 |                          | 87. Length 2000 mm, Ø 150 |                                        | 90. Bracket Ø 150                     | 94. Connection kit (Ø 80)                |
|                          |                 |                          |                           |                                        | 91. Condensate trap (Ø 150)           | 95. Connection kit (Ø 100)               |
|                          |                 |                          |                           |                                        | 92. Attachment rail for cascade (opt) | 96. Basic connection kit 750 mm (Ø 150)  |
|                          | Cascade Ø 200   | 97. Roof terminal, Ø 200 | 98. Length 1000 mm, Ø 200 | 100. Support, 90°, Ø 200               | 102. Connection sheath, Ø 200         | 94. Connection kit (Ø 80)                |
|                          |                 |                          | 99. Length 1900 mm, Ø 200 | 101. Support, 90°, Ø 200, with bracket | 103. Bracket, Ø 200                   | 95. Connection kit (Ø 150) for cascade   |
|                          |                 |                          |                           |                                        | 104. Condensate trap (Ø 200), cascade | 105. Basic connection kit 750 mm (Ø 200) |
|                          |                 |                          |                           |                                        | 92. Attachment rail for cascade (opt) |                                          |

\* Also refer to the latest ACV/Groupe Atlantic Price list for more information and the correct references.

## SAFETY INSTRUCTIONS FOR THE INSTALLATION



### Essential instructions for safety

- The connections (electrical, flue pipe, hydraulic) must be carried out in accordance with local standards and regulations in force.
- Install the appliance on level base or vertically plumb support made of non-combustible materials and of sufficient strength to support its weight.
- Use extreme care not to drop the appliance or cause bodily injury while lifting or mounting the appliance onto the wall bracket or base. Once mounted, verify that the appliance is securely attached to the bracket and wall or safely set on its base.
- Do not use or store any flammable or corrosive products, such as paint, solvents, salts, chloride products and other detergent products near the appliance.
- Make sure that the condensate outlet is never obstructed and that a condensate neutralisation system is installed if required.
- Make sure that all air vents are unobstructed at all times.



### Essential instructions for the electrical safety

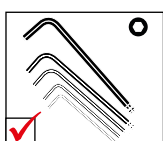
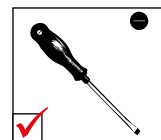
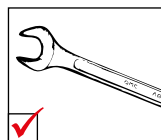
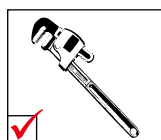
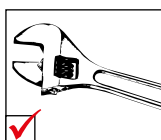
- Only an approved installer is authorized to carry out the electrical connections.
- Make sure that the appliance is connected to the earth.
- Install a 2-way switch and a fuse or circuit breaker of the recommended rating outside the appliance, so as to be able to shut power down when servicing the appliance or before performing any operation on it.



### Essential instructions for the correct operation of the appliance

- The appliance must be installed in a dry and protected area, with an ambient temperature comprised between 0 and 45°C.
- Install the appliance to ensure easy access at all times.
- If the appliance contains a stainless steel DHW production tank, connect it directly to the earth to prevent corrosion.
- If works need to be performed (in the boiler room or close to the air vents), make sure to turn off the appliance to prevent dust from entering and accumulating in the appliance heating system.

## TOOLS REQUIRED FOR THE INSTALLATION



## PACKAGE CONTENTS



**At product reception and after removal of packaging, check the package contents and that the appliance is free of damages.**

- WaterMaster Evo 2 water heater
- Installation, Operation and Maintenance Instructions
- Orifice for the natural gas to propane conversion + stickers (Except in Belgium)
- Ball condensate trap to be installed.
- A primary safety valve Ø 1/2" (F) to be installed

## HANDLING INSTRUCTIONS



- The appliance weighs more than 180 kg, which could present a risk of injury. Ask for help to handle it and use an appropriate lifting means.
- If using a pallet truck to transport the appliance, remove the bottom front panel (see ML booklet for instructions).
- Bring the appliance as close as possible to the installation location before removing the packaging.
- If necessary and to make transport easier, the appliance casing can be removed for transportation to the final installation location. Refer to ML booklet for the correct procedure.
- Before removing the packaging, ensure that the installation area is clear and that there are no obstacles making the handling and installation difficult or unsafe.

## REMOVING THE PACKAGING

1. Remove the plastic wrapping.
2. Remove the protection pieces and discard in accordance with applicable local regulations.

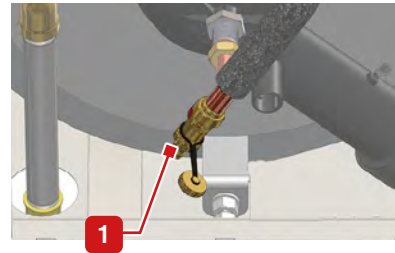
## APPLIANCE PREPARATION

- Remove the bottom panel stored at the back of the appliance for transport. Install on the appliance when it is in its final position. Refer to the ML Booklet for the correct installation procedure.



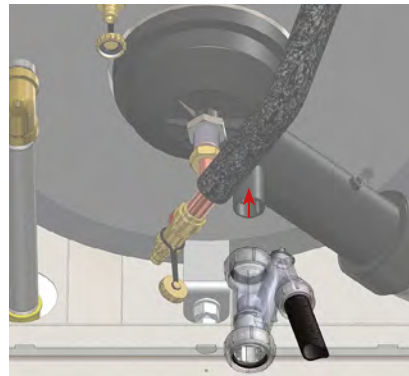
- Perform the gas conversion to propane as required. Refer to **"Conversion to Propane"** on page 39.
- Install the optional filling kit (accessory). Please contact your ACV/Groupe Atlantic representative for more information.

- Close the circulation tube end tap (1) (access from the bottom of the appliance)



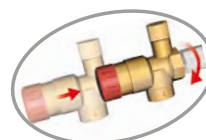
The circulation tube is equipped with an end tap that is open when the appliance is delivered (to prevent test water from being stuck in the circuit and freezing during transport). Make sure that you close the tap before filling the system with water.

- Install the ball condensate trap, then the bottom front panel (to be clipped in)



Fit the condensate trap, complete with the ball, making sure to install the items in the correct sequence and connect the hose to the drain using a connection that can be inspected. Fill the trap with clean water. Make sure to prevent the condensates from freezing. Refer to the procedure provided with the condensate trap, or get it from [www.acv.com](http://www.acv.com) (See page 4 for an access with QR code)

- Install the safety valve kit : primary circuit safety valve at the back of the appliance



## SAFETY INSTRUCTIONS - HYDRAULIC CIRCUITS



### Essential instructions for safety

- If the appliance is not equipped with one, the heating circuit of the system must be fitted with an approved safety pressure relief valve, according to the pressure mentioned on the type plate.
- Please refer to the applicable local regulations for the installation of the required safety accessories in the hydraulic circuits. Please contact your ACV representative for more information.
- Use a two-wrench method when tightening field piping onto the appliance piping connections. Use one wrench to prevent the appliance connections from turning and the second to tighten field piping. Failure to support the appliance piping connections could damage piping or cause a leak.
- In the event of small amounts of hot water repeatedly being drawn off, a stratification effect can develop in the tank. The upper hot water layer may then reach very high temperatures.
- Hot water can cause scalding! The temperature of the domestic hot water can be adjusted up to 75 °C in the appliance. However, the temperature of the domestic hot water at the drawing off point must comply with local regulations.
- ACV recommends therefore the installation of a pre-set thermostatic mixing valve in order to provide hot water at a maximum of 60°C.
- The risk of developing bacteria exists, including "Legionella pneumophila", if a minimum temperature of 60°C is not maintained in both the DHW tank and the hot water distribution network.
- In order to avoid exposure to extremely hot water that can cause serious burns, never leave children, old people, disabled or handicapped people in the bath or shower alone. Never allow young children to turn on the hot water or fill their own bath.
- In the UK, the components used to seal the connections must be WRAS or equivalent certified products.



### General remark

- At installation of domestic piping, ensure that the internal connection elbow is correctly tightened before installing the pipes. Retighten as required.
- At commissioning and once the system is under pressure, check that there are no water leaks. Retighten as required.



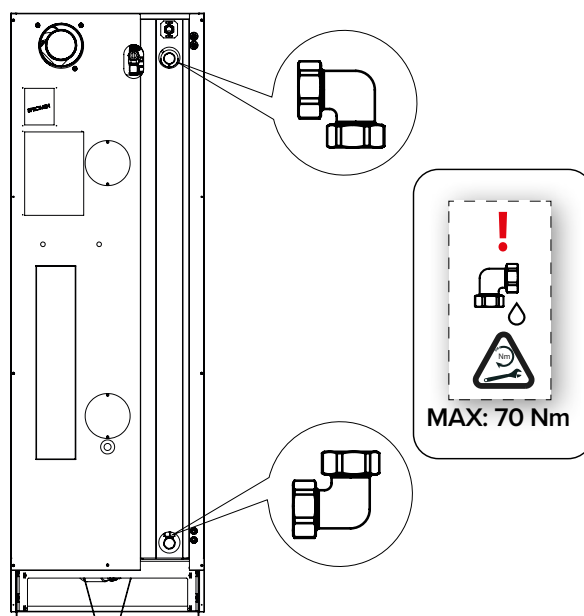
### Essential instructions for the correct operation of the appliance

- Make sure that the mains water used to fill the appliance has a minimum pressure of 0.12 MPa (1.2 bar).
- Make sure to install a pressure reducing valve set at 0.45 MPa (4.5 bar) if the mains supply pressure is in excess of 0.6 MPa (6 bar).
- Flush the system before connecting the domestic hot water circuit. Refer to the installation instructions.
- If the appliance is not equipped with one, make sure to install an expansion vessel in the primary circuit, which is adapted to the appliance power/size and the type of system.
- It is recommended to install an expansion vessel in the DHW circuit to prevent the safety valve from opening constantly and reduce the water hammer effect in the system.
- If the appliance is used as a domestic hot water preparation tank, a primary expansion vessel adapted to the boiler power/size and to the type of system must be fitted in the heating circuit (if there is no built-in expansion vessel, or if the built-in expansion vessel size is not sufficient).



### General remark

- If the water drawing off point is far from the tank, installing an auxiliary DHW loop can allow to get hot water more quickly at all times.
- The circuit illustrations are basic principle diagrams only.



## G3 REQUIREMENTS AND GUIDANCE - UK ONLY

**👉** In the UK, for installation of Evo 2 model appliances directly onto the mains supply of water, ACV/Groupe Atlantic offer bespoke unvented kits which have been sized to the requirements of each individual appliance, and contain all of the mandatory components you need to comply with Building Regulations.

Unvented kits provided for Evo 2 models include:

- a 25L expansion vessel & mounting bracket,
- a 28mm combined pressure reducing valve (0.35 MPa [3.5 bar]) & expansion relief valve (0.6 MPa [6 bar]),
- a tundish,
- a flexi hose.

### Discharge pipe from safety valves

The *Building Regulation G3* requires that any discharge from an unvented system is conveyed to where it is visible, but will not cause danger to persons in or about the building.

The tundish and discharge pipes should be fitted in accordance with the requirements and guidance notes of Building Regulation G3.

For discharge pipe arrangements not covered by G3 Guidance advice should be sought from your local Building Control Officer.

Main characteristics :

- Any discharge pipe connected to the pressure relief devices (Expansion Valve and Temperature/Pressure Relief Valve) must be installed in a continuously downward direction and in a frost free environment.
- Water may drip from the discharge pipe of the pressure relief device.
- This pipe must be left open to the atmosphere.
- The pressure relief device is to be operated regularly to remove lime deposits and to verify that it is not blocked.



### Essential instructions for safety

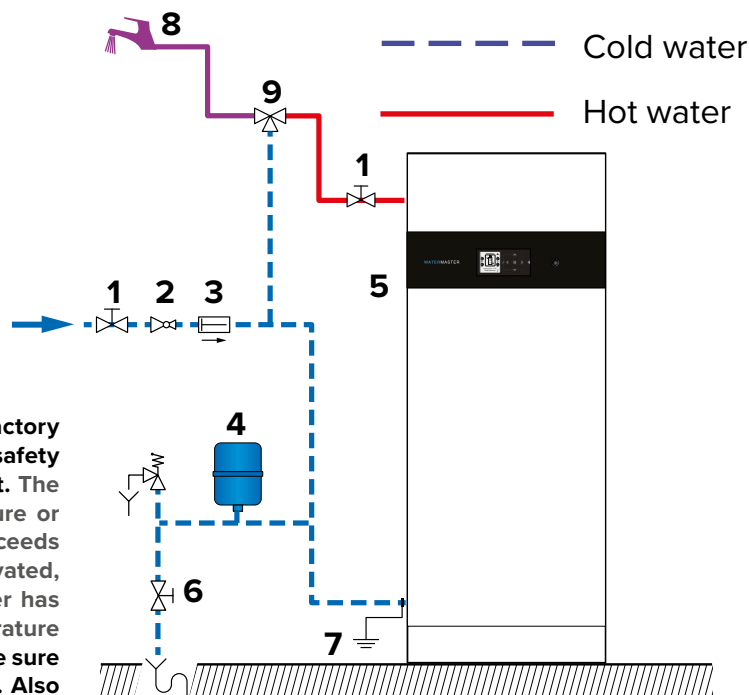
- The temperature/pressure relief valve should only be replaced by a competent person.
- No control or safety valves should be tampered with or used for any other purpose.
- The discharge pipe should not be blocked or used for any other purpose.
- The tundish should not be located adjacent to any electrical components.

## CONNECTION OF THE DHW CIRCUIT

### Description

1. Isolating valve
2. Pressure reducing valve
3. Check valve
4. DHW expansion vessel
5. Safety valve (internal)
6. Drain valve
7. Grounding
8. Draw-off tap
9. Thermostatic mixing valve

**\*This appliance is equipped from factory with a Temperature and Pressure safety valve installed on the DHW circuit. The T&P valve will open if the pressure or temperature within the tank exceeds the valve limit. If the valve is activated, it will remain open until the water has dropped below the unsafe temperature and pressure limit. In the UK, make sure to comply with G3 requirements. Also refer to information above.**



## Applications with Water Hammer Effect (e.g. car wash)

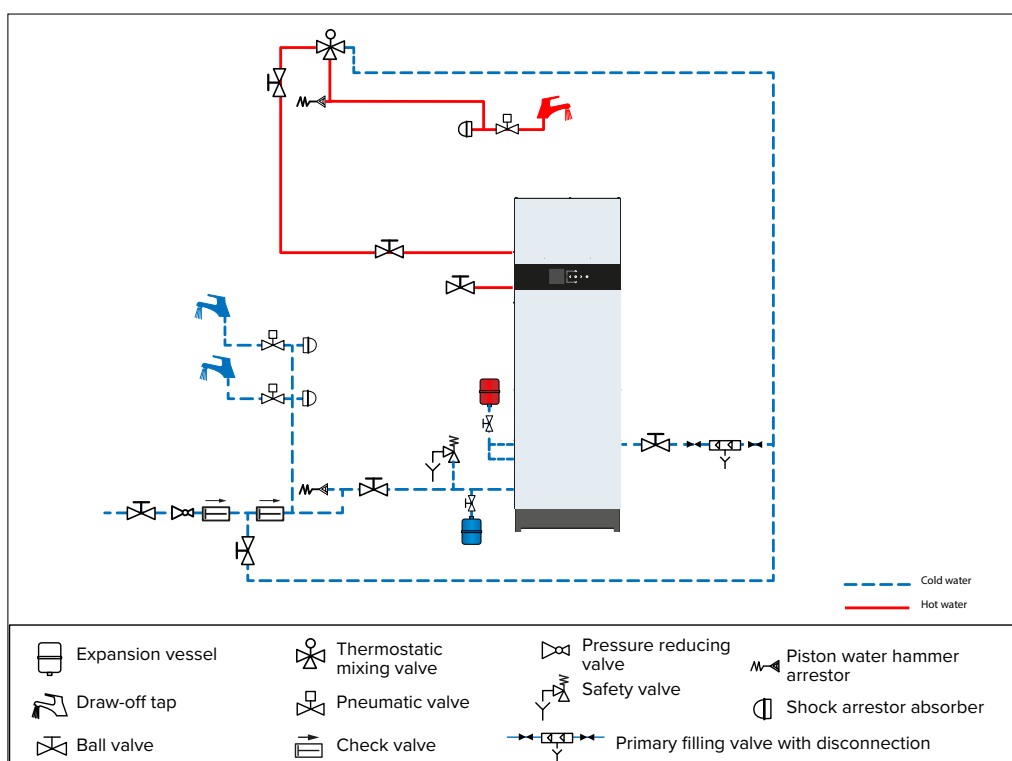
When the appliance is used in applications where water hammer effect can be severe due to the frequent and sudden opening/closing of valves, (e.g. car wash systems, etc.), devices should be installed in the system to counter this effect and prevent damage from occurring to the piping/appliance.

The water hammer effect is caused by shock waves running through the system when the flow rate is changed suddenly (e.g. when a valve is closed/opened suddenly). This induces a surge/sudden fall in pressure, which creates noise and sometimes movement in the system piping.

The pressure wave created in these circumstances can be up to three times greater than the standing system pressure. This can damage the piping and the appliance.

It is therefore strongly recommended to install shock absorber and/or water hammer arrestor devices in the hydraulic system.

To determine the correct devices to be installed in the system for your application type and size, please contact your ACV/Groupe Atlantic Customer Support.



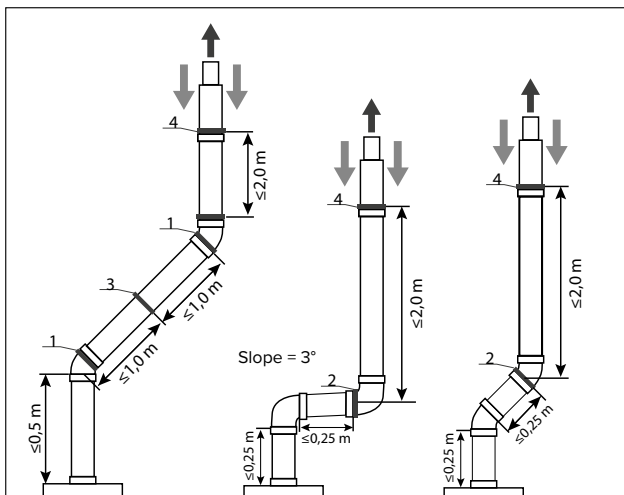
**ACV/Groupe Atlantic shall not be liable for any special, indirect, incidental or consequential damages if the recommendations herein are not complied with at installation of the appliance in such systems.**

## GENERAL RECOMMENDATIONS AND SAFETY INSTRUCTIONS FOR THE CHIMNEY CONNECTION



### Essential instructions for safety

- Do not install the boiler into a common flue piping with any other gas or oil appliances. This will cause flue gas spillage or appliance malfunction.
- Verify installed combustion air and flue piping are sealed gas tight and meet all provided instructions and applicable codes and standards.
- Failure to properly support the flue system can cause the flue system to fail, resulting in substantial property damage, serious injury, or death.
- A byproduct of any gas/oil fired appliance is carbon monoxide. Failure to install carbon monoxide detectors with alarms can result in serious injury, or death. Refer to applicable local regulations.



1. Each elbow and straight element will be secured at the sleeve.
2. In case the straight element before or after the first elbow is shorter than 25 cm, secure the straight element after the elbow using a bracket.
3. In case a straight (horizontal or sloped) element is longer than 1 m, support the element in its center using a clamp, making sure to allow free movement of the pipe.
4. Secure with a clamp every 2 meters in vertical piping/1 meter in horizontal/sloped piping, making sure to distribute the clamps evenly on the length of piping.

- Install the horizontal flue pipes with a slight slope of 5 cm per meter (3°), so that the acid condensation water flows to a condensate recovery container and does not damage the heating body.
- If the appliance is provided with a condensate drain assembly, make sure to install the complete assembly on the boiler. If the assembly is incomplete, replace the entire assembly.
- Make sure that the condensate drain assembly is filled with water before starting up the boiler and check regularly the water level. Fill with water as necessary.
- It is mandatory to ventilate the boiler room. The high or low air vent opening dimensions depend on the boiler power and the boiler room size. Refer to the local regulations in force.
- If the combustion air inlet is located in an area likely to cause or contain contamination, or if products which could contaminate the air cannot be removed, the combustion air must be repiped and terminated at another location.
- Pool, laundry, common household, and hobby products often contain fluorine or chlorine compounds, which can form strong acids and corrode the internal components and flue system.
- In the case of parallel flue systems, make sure to maintain sufficient distance (at least 40 mm) between the boiler flue piping and combustible materials, and between the flue pipe and air inlet pipe if the latter is made of plastic material.
- Do not use screws to fasten together any flue pipe elements or any PP air inlet elements.
- Do not bond piping elements together using glue (e.g. silicone) or foam (e.g. PUR).



### General remark

- For safety reasons and to make assembly easier, it is recommended to prefer the use of concentric flue pipes when possible.
- It is recommended to isolate the flue piping in damp rooms to prevent condensation water from forming on the piping and drip.
- When cutting the pipes to dimension, make sure to cut squarely and deburr the edges to prevent seals from being incorrect or damaged.
- To make piping assembly easier, exclusively use a mixture of water and soap (1%) on the extremity of the pipe to be fit in.
- When fitting metal flue pipes, make sure to always fit the pipe into the sleeve to the end stop.
- When fitting plastic flue pipes, make sure to allow material expansion by leaving about 10 mm between the pipe end and the sleeve end stop.
- Make sure to install the piping without any strain.
- Make sure to install an inspection opening in the flue system.
- When connecting the flue pipes, make sure not to exceed the maximum length recommended for the product, otherwise the system power might decrease.
- ACV-approved components will be used for the chimney connection. Failure to do so will make any warranty claim void.
- For C63 connection type (not allowed in Belgium), make sure to use the correct piping material according to the resistance to temperature, pressure, chemical composition of flue, condensation and soot. A code (as explained in EN 1443), marked on the pipe, allows to determine if the material complies with the flue system requirements.



### Essential instructions for the correct operation of the appliance

- A condensation outlet connected to the sewer must be fitted close to the boiler to prevent the condensation products from the flue pipe from running into the boiler.
- Install a condensate neutralisation system if required by national and/or local regulations and have it cleaned regularly.
- Only use flue system components from the same manufacturer to connect this appliance and ensure that the pipe and connection diameters all match.
- Make sure to secure the flue piping to a solid structure.
- Exclusively use provided brackets to support the flue system.



Perform Chimney installation according to the data available in section *"Chimney Characteristics"* on page 24

## GENERAL RECOMMENDATIONS AND SAFETY INSTRUCTIONS FOR THE GAS CONNECTION



### Essential recommendations for safety

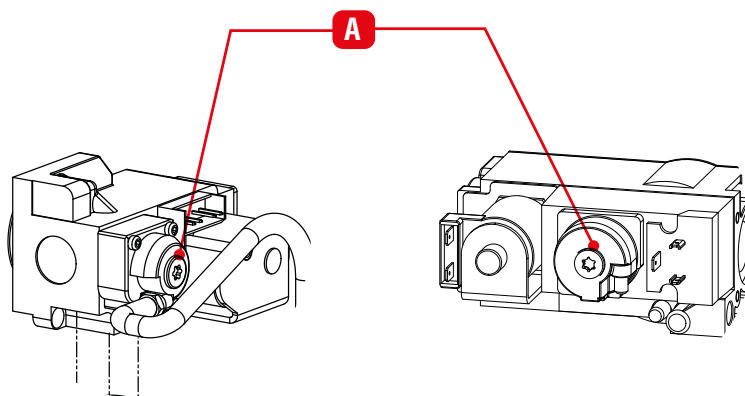
- The gas connection must comply with all applicable local standards and regulations, and the circuit will be equipped with a gas pressure regulator as required.
- Do not check for gas leaks with an open flame. Use a gas detection device or bubble test.
- The gas burners are factory preset for use with natural gas [equivalent to G20]. Do not adjust or attempt to measure gas valve outlet pressure. The gas valve is factory-set for the correct outlet pressure and requires no field adjustment.
- The natural gas to propane conversion or the reverse is not authorized in certain countries such as Belgium. Refer to the table of gas categories in the technical characteristics of this manual.
- In Belgium, a conversion kit is available as a separate accessory and the conversion process must be carried out by Groupe Atlantic Belgium. Please contact Groupe Atlantic Belgium for gas conversion.
- The gas orifice installed on the boiler must never be modified or replaced with a different size orifice, except in the case of a gas conversion process, which shall be performed by a qualified professional according to the provided procedure and requirements.

- The CO<sub>2</sub>, gas flow rate, air flow rate and air/gas supply parameters are factory-preset and may not be modified in Belgium, except for type I 2E(R) boilers.
- Do not change the OFFSET (A) setting of the gas valve: it is factory-preset and sealed.



### Essential recommendations for the correct operation of the appliance

- Refer to the technical characteristics of this manual or to the burner documentation to know the connection diameters.
- Bleed the gas duct and check thoroughly if all the boiler tubes, both internal and external, are tight.
- Check that the gas type and pressure from the distribution network are compatible with the appliance settings. Refer to the product type plate.
- Check the boiler electrical connection, the boiler room air vent system, the tightness of flue gas outlet pipes and of the burner chamber plate.
- Control the gas pressure and consumption at appliance start up.
- Check the boiler CO<sub>2</sub> adjustment (refer to the adjustment procedure and the technical data).



WaterMaster®

25 (X) - 35 - 45 (X) - 60 - 70 (X) - 85 Evo 2

WaterMaster® 120 Evo 2

## CONVERSION TO PROPANE



### General remark

According to the indication on the type plate, the appliance is factory preset to operate with natural gas (G20/G25). Converting the appliance to propane is done through the installation of an orifice and adjustments, carried out by a professional. In Belgium, this conversion procedure can only be carried out by Groupe Atlantic Belgium personnel. Please contact Groupe Atlantic Belgium for further information.

### Set-up conditions

- External power supply isolated
- Gas supply closed
- Upper front panel and top cover of the appliance open, refer to **ML booklet**.

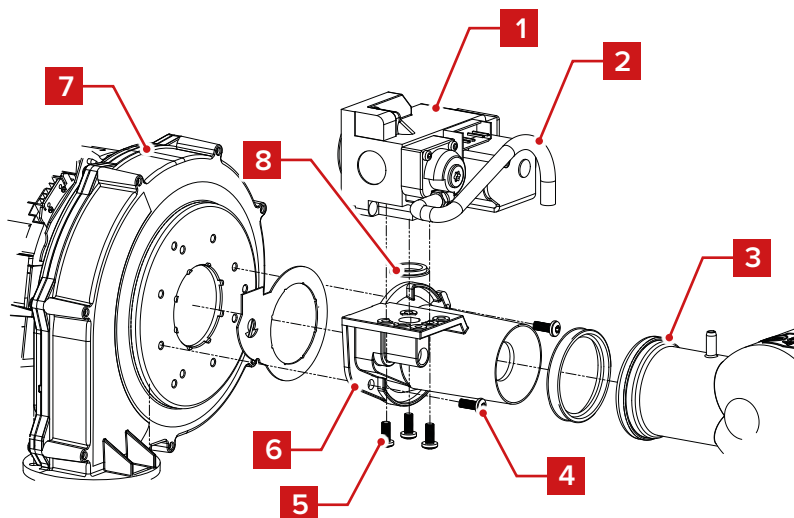
### Procedure of orifice installation (25 to 85 kW models)

1. Release the gas pipe.
2. Remove the power supply plug from the gas valve (1).
3. Disconnect the compensation hose (2) from the gas valve (1) and air inlet (3). Retain for reinstallation.
4. Disconnect the air inlet (3) from the venturi (6).
5. Remove the gas valve/venturi assembly from the fan (7) by releasing two screws (4). Retain the screws for reinstallation.
6. Remove the gas valve (1) from the venturi (6) by releasing three screws (5). Retain the screws for reinstallation.
7. Install the orifice (8) in the center of the O-ring.

### Make sure you position the O-ring correctly.

8. Reassemble the gas valve/venturi assembly, following the same procedure in reverse order, and torque the three gas valve screws (5) and the 2 venturi screws (4) at 3.5 to 4 Nm.
9. Reinstall the air inlet (3).
10. Reconnect the compensation hose (2) to the gas valve (1) and air inlet (3).
11. Reconnect the gas pipe connection.
12. Reconnect the power supply plug(s) to the gas valve.
13. Install the conversion stickers, see next page.

| Evo 2 Models    | Gas nat. orifice dia. (mm) | Propane orifice dia. (mm) |
|-----------------|----------------------------|---------------------------|
| 25 - 35 kW      | —                          | 5.2                       |
| 45 kW           | —                          | 6.0                       |
| 60 - 70 - 85 kW | —                          | 6.8                       |



WM 25 (X) - 35 - 45 (X) - 60 - 70 (X) - 85 Evo 2

## Procedure of orifice replacement (120 kW models)

1. Release the gas pipe.
  2. Remove the power supply plug(s) from the gas valve (11).
  3. Disconnect the compensation hose (10) from the gas valve (11) and the air inlet (9). Retain for reinstallation.
  4. Disconnect air inlet pipe (9) from bracket (4).
  5. Release two screws (8) securing the air inlet bracket (4) to the venturi (7) and fan (6).
  6. Release four screws to disconnect the gas pipe flange (12) from the gas valve (11). Retain hardware and O-ring for reinstallation.
  7. Release one remaining screw from venturi (7) and remove gas valve assembly (gas valve, elbow and venturi) from fan (6). Retain hardware and O-ring for reinstallation.
  8. Release four screws (5) to disconnect the elbow flange (1) from the venturi (7). Retain for reinstallation.
  9. Replace the orifice (2) with the new one in the center of the O-ring (3).
-  **Make sure you position the orifice correctly (shouldered face turned towards the venturi, flat face turned towards the gas valve).**
10. Maintaining the O-ring (3) and orifice (2) in position in the venturi (7), install the elbow flange (1) on the venturi (7) using four retained screws (5). Torque at 3.5 to 4 Nm.
  11. Install gas valve assembly on fan (6) with O-ring, using one retained screw.
  12. Install gas pipe flange (12) on gas valve (11) using four retained screws. Torque at 3.5 to 4 Nm.
  13. Install air inlet bracket (4) on venturi (7) using two retained screws (8).
  14. Torque the three screws maintaining the venturi to the fan at 3.5 to 4 Nm.
  15. Install air inlet (9) on bracket (4).
  16. Reconnect compensation hose (10) to gas valve and air inlet (9).
  17. Reconnect the gas pipe connection.
  18. Reconnect the power supply plug(s) to the gas valve (11).

## Sticker Placement

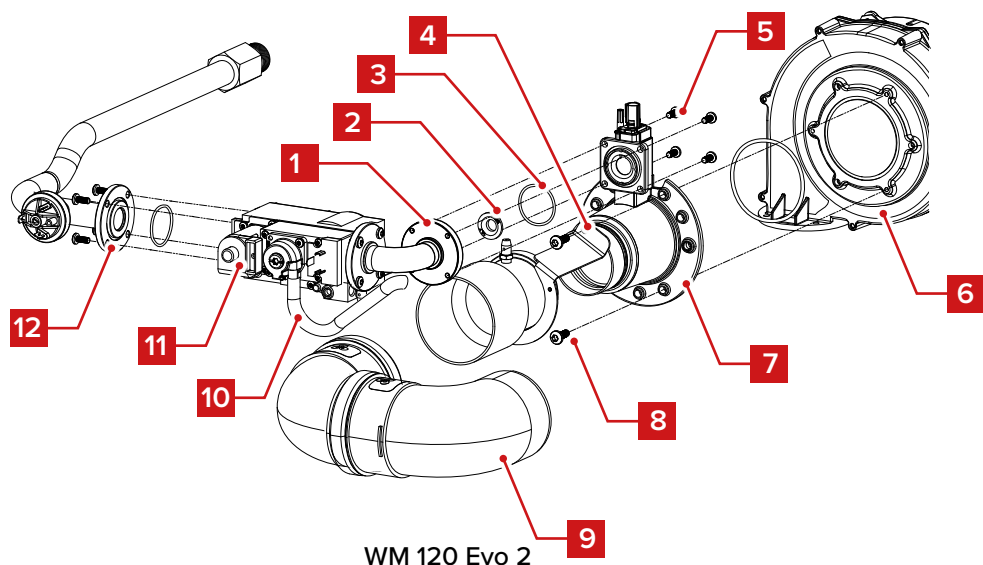
 **Make sure to place the stickers as requested. Failure to comply can cause injuries or damage to the equipment.**

- Stick the yellow sticker at the back of the appliance and check the box to indicate the type of gas now used with the appliance.
- Stick the provided G31 data plate on the existing data plate (back of the appliance), or the corrective stickers (Belgium only).

## Follow-on tasks

1. Start the appliance. Refer to *"Starting up the Appliance" on page 43*.
2. Change the appliance code through the Installer menu: **CH&DHW Settings/Boiler Settings/Appliance Code**. Refer to the "Installer's handbook for Evo 2 models" for more information.
3. Carry out the CO<sub>2</sub> adjustment, See *"Checking and Adjusting the Burner" on page 43*.
4. Reseal the offset and the throttle on the gas valve, as required.
5. Close all open panels, see the *ML Booklet*.

| Evo 2 Models | Gas nat. orifice dia. (mm) | Propane orifice dia. (mm) |
|--------------|----------------------------|---------------------------|
| 120 kW       | 10.7                       | 7.8                       |



## SAFETY INSTRUCTIONS FOR STARTING UP



### Essential instructions for safety

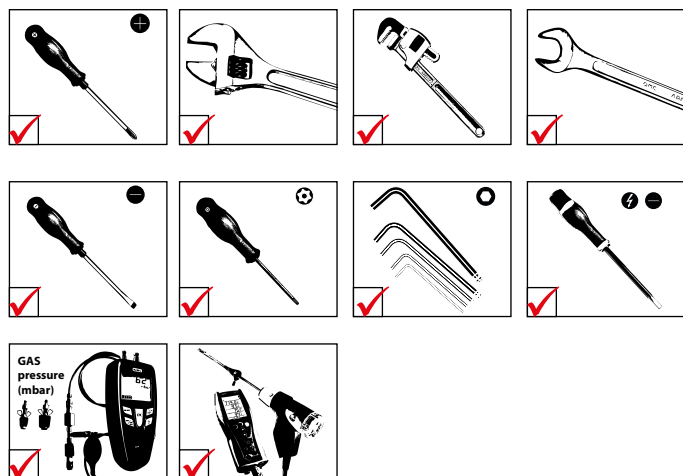
- The components inside the control panel may only be accessed by an approved installer.
- Set the water temperature in accordance with usage and local plumbing codes.
- Make sure that the heating circuit filling valve is closed once the starting up process is complete.
- If there is a drain assembly, make sure that the condensate drain assembly is filled with water before starting up the boiler. Fill with water as necessary.
- Make sure that all connections are made and tight.



### General remark

In normal operation, the burner starts automatically as soon as the boiler temperature drops below the preset temperature.

## TOOLS REQUIRED FOR STARTING UP



## CHECKS BEFORE STARTING UP



### Essential recommendation for safety

- Check the tightness of the flue pipe connections.



### Essential recommendation for the correct operation of the appliance

- Control the tightness of the hydraulic circuit connections.

## FILLING THE SYSTEM



Put the DHW tank under pressure **before** pressurizing the heating (primary) circuit.

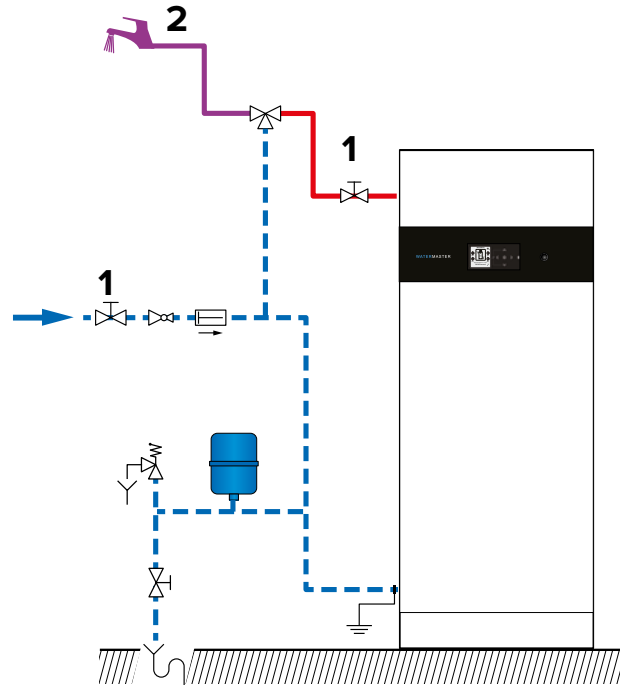
### Set-up conditions

- External power supply isolated

### DHW circuit filling procedure

1. Open the isolating valves (1) and the draw-off tap (2).
2. Once the water flow rate has stabilized and the air is totally evacuated from the system, close the draw-off tap (2).
3. Check all the connections for leaks.

--- Cold water  
— Hot water



### Primary circuit filling procedure

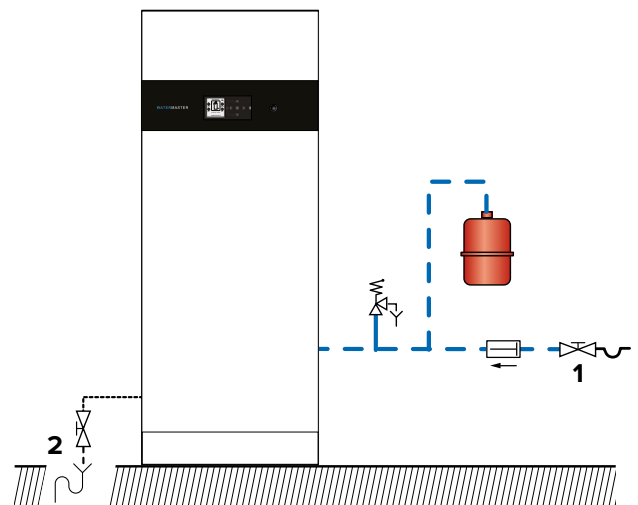
1. Make sure that the drain valve (2) is tightly closed.
2. Open the isolating/filling valve (1).
3. Once the system is bled from air, bring the pressure to the static pressure between 0.15 MPa (1.5 bar) and 0.2 MPa (2 bar).
4. Close the isolating/filling valve (1).
5. Disconnect filling device from water supply.\*

### Follow-on tasks

1. Check there is no leak.



- The drain valve is located underneath and the front cover of the base needs to be removed to get access to it.
- Primary circuit can be filled using an optional hydraulic kit. Please ask your ACV/Groupe Atlantic representative for more information.
- The shut-off valve (1) provided with the optional hydraulic kit contains a built-in check valve. In some countries, for regulation purposes, it must be replaced by a backflow-preventing device (not included), to avoid any pollution.



\* UK specific reference G24.1 & G24.2 of the Water Regulations Guide.

## STARTING UP THE APPLIANCE

### Set-up conditions

- All connections made
- Gas conversion carried out as required
- Condensate trap full of water
- Electrical power supply on
- Gas supply open
- Hydraulic circuit(s) full of water

### Procedure

1. Check that there is no gas leak.
2. Depress the ON/OFF master switch (⏻).
3. Check the gas pressure and allow the appliance to heat up for a few minutes
4. Check and adjust the burner according to local standards and regulations, refer to the procedure on the right.
5. Set the Domestic Hot Water temperature to the required value using the control panel. Refer to **"Controller Set-up Guide" on page 9** and to the Installer's Handbook.
6. After 5 minutes of operation, bleed the primary circuit until all air is evacuated and restore a 0.15 MPa (1.5 bar) pressure.
7. If required, top it up with water to get the required pressure.

### Follow-on tasks

1. Close the primary circuit filling valve and disconnect the filling connection as required.
2. Check that there are no leaks.
3. Check that the flow rate in the appliance is sufficient as follows :
  - Operate the appliance at maximum power
  - Once the temperatures are stable, read out the supply and return temperatures
  - Check that the difference between the supply and return temperature is equal or less than 20K.
  - If the Delta T is higher than 20K, check the pump settings/specifications.

## CHECKING AND ADJUSTING THE BURNER

 **When the burner operates at full power, the CO<sub>2</sub> rate must be within the limits mentioned in the technical characteristics, (see "Combustion characteristics" on page 15).**

### Set-up conditions

- Front top panel and top panel removed. See ML Booklet.
- Operating appliance

### Procedure

1. Check if the ACVMAX parameters are set to meet the user's requirements (refer to **"Controller Set-up Guide" on page 9**), and change them if required.
2. Put the appliance to maximum power as follows:
  - Access the Installer menu by touching the up and down arrows on the control panel simultaneously for 5 seconds.
  - Enter the installer code when prompted (Refer to the Installer's Handbook for Evo 2 models if required).



- From the Installer menu, select Manual Operation (⏻).
- Set FAN to 100% using the right arrow on the control panel.



**The function remains active for 10 minutes.**

3. Allow the appliance to stabilize for a few minutes
4. Using a pressure tester, check that the dynamic gas pressure at the gas valve is at least 18 mbar.
5. Allow the appliance to heat for a few minutes until it reaches at least 60°C.
6. Measure the burner combustion by placing the flue gas analyzer probe in the measurement unit port on the flue pipe and compare the CO and CO<sub>2</sub> values displayed with those indicated in the combustion characteristics table.
7. If the CO<sub>2</sub> value differs by more than 0.3% (WM 25 (X) to 85 Evo 2) or 0.2% (WM 120 Evo 2), carry out the CO<sub>2</sub> adjustment procedure below.
8. Put the appliance to the minimum power as follows:
  - Access the Installer menu by touching the up and down arrows on the control panel simultaneously for 5 seconds.
  - Enter the installer code if prompted
  - From the Installer menu, select Manual Operation (⏻).
  - Set FAN to 0% using the left arrow on the control panel.
9. Allow the appliance to stabilize for a few minutes
10. Measure the burner combustion and compare the CO and CO<sub>2</sub> values displayed with those indicated in the combustion characteristics table.
11. If the CO<sub>2</sub> value differs by more than 0.3% (WM 25 (X) to 85 Evo 2) or 0.2% (WM 120 Evo 2), contact ACV/Groupe Atlantic's customer's support.

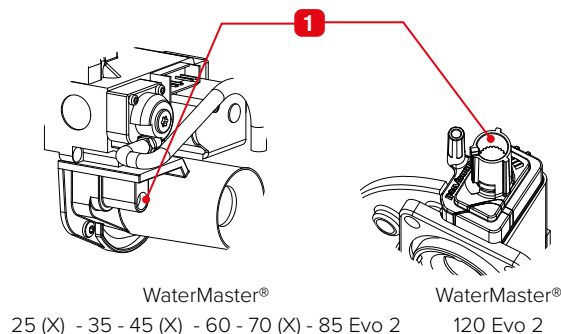
### CO<sub>2</sub> Adjustment Procedure

To adjust the CO<sub>2</sub> rate, rotate the throttle screw (1) in small steps :  
on WM 25 (X) to 85 :

- to the left (counterclockwise) **to increase the** CO<sub>2</sub> rate.
- to the right (clockwise) **to decrease the** CO<sub>2</sub> rate.

On WM 120 :

- to the right (clockwise) **to increase the** CO<sub>2</sub> rate.
- to the left (counterclockwise) **to decrease the** CO<sub>2</sub> rate.



### Follow-on tasks

Reinstall all removed access panels. See **ML booklet**

## SAFETY INSTRUCTIONS FOR MAINTENANCE



### Essential instructions for the electrical safety

- Before opening the boiler for maintenance, turn off the boiler by pushing on the ON/OFF master switch.
- Isolate the external power supply of the appliance before performing any operation, unless it is required to take measurements or perform system setup.



### Essential instructions for safety

- Water flowing out of the drain valve may be extremely hot and could cause severe scalding.
- Do not use solvents to clean any of the burner components. The components could be damaged, resulting in unreliable or unsafe operation.
- Check the tightness of the flue pipe connections.



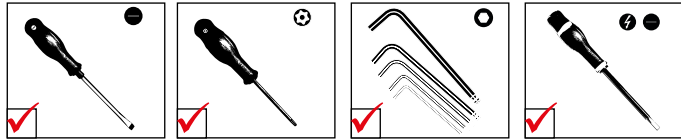
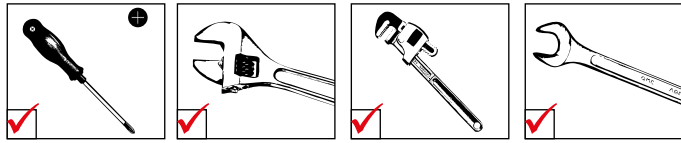
### Essential instructions for the correct operation of the appliance

- It is recommended to have the boiler and the burner serviced at least once a year or every 1,500 hours by a qualified technician, preferably at the start of the heating season. More frequent servicing may be required depending on boiler use. Please consult your installer for advice.
- The boiler and burner maintenance will be carried out by a qualified engineer, and the defective parts may only be replaced by genuine factory parts.
- Make sure to replace any gaskets or seals on the removed components before reinstalling them.
- To ensure maximum efficiency and reliability of the unit, it is recommended that the end-user perform the periodic checks mentioned in the Safety section of this manual.
- Control the tightness of the hydraulic circuit connections.
- Make sure to apply the correct torque value when tightening components, according to the table below.

## TORQUE VALUES

| Description          | Tightening torque<br>(Nm) |     |
|----------------------|---------------------------|-----|
|                      | Min.                      | Max |
| Burner flange screws | 5                         | 6   |
| Electrode screws     | 3                         | 3.5 |
| Venturi screws       | 3.5                       | 4   |
| Gas valve screws     | 3.5                       | 4   |

## TOOLS REQUIRED FOR MAINTENANCE



## APPLIANCE SHUT DOWN FOR MAINTENANCE

1. Switch the appliance off using the ON/OFF master switch and isolate the external power supply.
2. Close the gas supply valve of the appliance.

## PERIODIC APPLIANCE MAINTENANCE TASKS

| Tasks                                                                                                                                                                                                                                                              | Frequency           |              |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|---------|
|                                                                                                                                                                                                                                                                    | Periodic inspection | 1 year       | 2 years |
|                                                                                                                                                                                                                                                                    | End-user            | Professional |         |
| 1. Make sure that the system water pressure is at least 0.1 MPa (1 bar) when cold. Top up the system if necessary, adding small quantities of water at a time. In case of repeated fills, call your installer.                                                     | X                   | X            |         |
| 2. Check that there is no water on the floor under the appliance. Call your installer if there is.                                                                                                                                                                 | X                   | X            |         |
| 3. Check that no error code is displayed on the control panel. Call your installer if necessary.                                                                                                                                                                   | X                   | X            |         |
| 4. Check that all gas, hydraulic and electrical connections are correctly fastened and tight.                                                                                                                                                                      |                     | X            |         |
| 5. Check the flue gas exhaust: correct fastening, correct installation, no leaks or clogging.                                                                                                                                                                      |                     | X            |         |
| 6. Check that there is no discoloured or cracked area on the burner chamber plate .                                                                                                                                                                                |                     | X            |         |
| 7. Check the combustion parameters (CO and CO <sub>2</sub> ), see <i>"Checking and Adjusting the Burner"</i> on page 43.                                                                                                                                           |                     | X            |         |
| 8. Check visually the heating body: no evidence of corrosion, soot deposits or damages. Carry out all required cleaning tasks, repairs and replacements that might be required.                                                                                    |                     | X            |         |
| 9. Check the electrode, see <i>"Removal, Check and Installation of the Burner Electrode"</i> on page 47.                                                                                                                                                           |                     |              | X       |
| 10. Remove the burner and clean the exchanger, see <i>"Removal and Installation of the Burner - WM 25 (X) to 85 Evo 2"</i> on page 48 or <i>"Removal and Installation of the Burner - WM 120 Evo 2"</i> on page 49 and <i>"Cleaning the Exchanger"</i> on page 50. |                     |              | X       |
| 11. Check that the condensate trap is not clogged. If it is, remove it, clean it, and reinstall it i.a.w. <i>"appliance Preparation"</i> on page 33.                                                                                                               |                     | X            |         |
| 12. If a condensate neutralisation system is installed, check it and have it cleaned.                                                                                                                                                                              | X                   | X            |         |

## DRAINING THE APPLIANCE



### Essential instructions for safety

- Before draining the DHW tank, drain the heating (primary) circuit or bring its pressure to 0 bar.
- Water flowing out of the drain valve may be extremely hot and could cause severe scalding. Keep people away from the hot water discharge.

### Set-up conditions

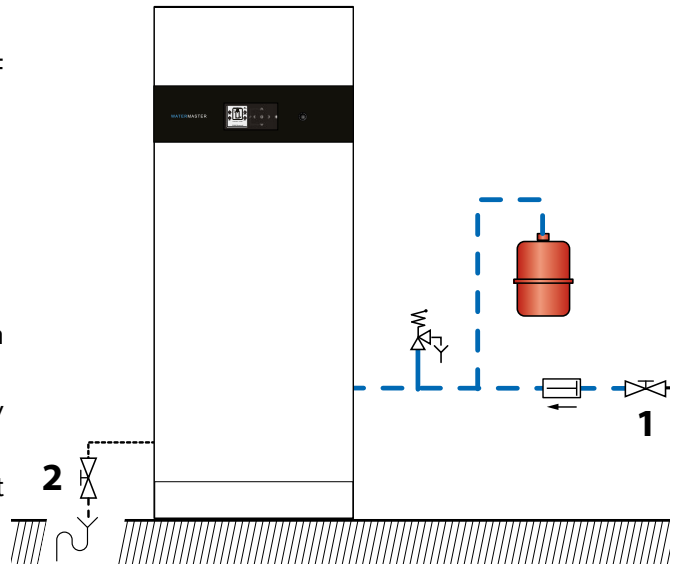
- Water heater switched off using the ON/OFF master switch
- External power supply isolated
- Gas supply closed

### Primary circuit draining procedure

1. Make sure the isolating valve (1) is closed.
2. Connect the drain valve (2) to the sewer with a hose.
3. Open the drain valve (2) to empty the primary circuit of the water heater.
4. Close the drain valve (2) once the primary circuit of the water heater is empty.

— Cold water

— Hot water



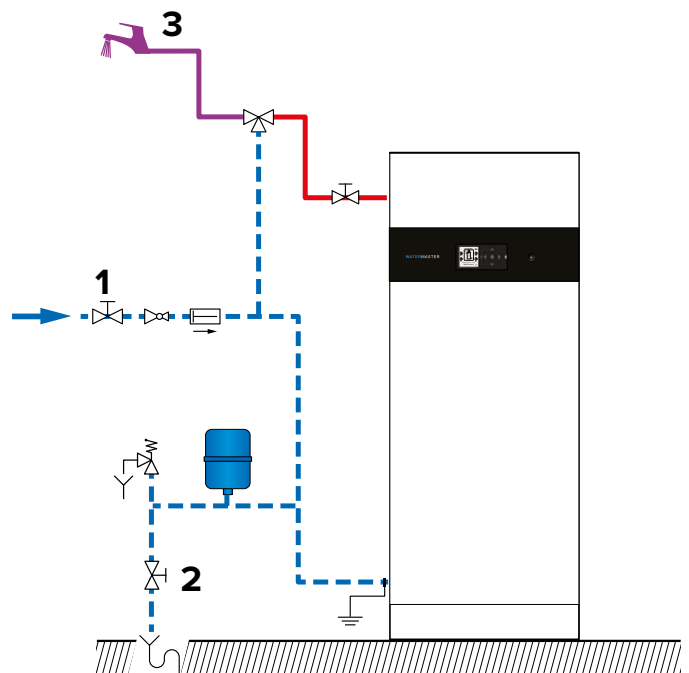
The drain valve is located underneath and the front cover of the base needs to be removed to get access to it.

### DHW circuit draining procedure



Before draining the DHW tank, make sure that the heating (primary) circuit pressure is null.

1. Open fully a draw-off tap (3) for about 60 minutes to make sure that the DHW tank has cooled down.
2. Close the isolating valves (1).
3. Connect the drain valve (2) to the sewer with a hose.
4. Open the drain valve (2) and drain the DHW tank water to the sewer.
5. Open the draw-off tap (3) to accelerate the draining process. If it is located lower than the tank connection, open a draw-off tap located higher in the system.
6. Close the drain valve (2) and the draw-off tap (3) once the DHW tank of the boiler is empty.



## REMOVAL, CHECK AND INSTALLATION OF THE BURNER ELECTRODE

 Remove the electrode to control it in case of ignition problems.

### Set-up conditions

- Appliance shut down
- External power supply isolated
- Gas supply closed
- Top panel open, refer to ML booklet.

### Removal procedure

1. Disconnect the electrode grounding cable from the electrode.
2. Disconnect the electrode ignition cable from the electrical box.
3. Remove two mounting screws (1) and retain them for reinstallation.
4. Remove the electrode (2) and the gasket (3).

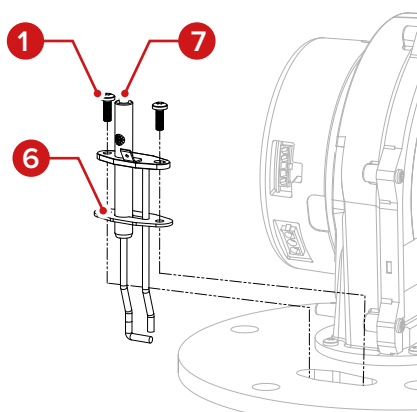
5. Check the correct alignment of the electrode ends and that the gap corresponds to the values indicated on the figure below.
6. If the electrode is in bad condition, replace it.

### Installation procedure

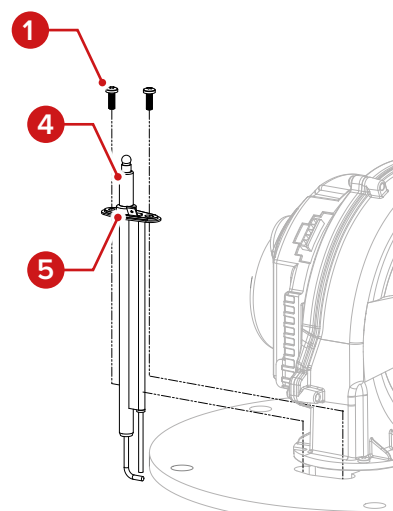
1. Install a new gasket (3).
2. Install the electrode (2) using the two screws (1), torque i.a.w. **"Torque Values" on page 44.**

### Follow-on tasks

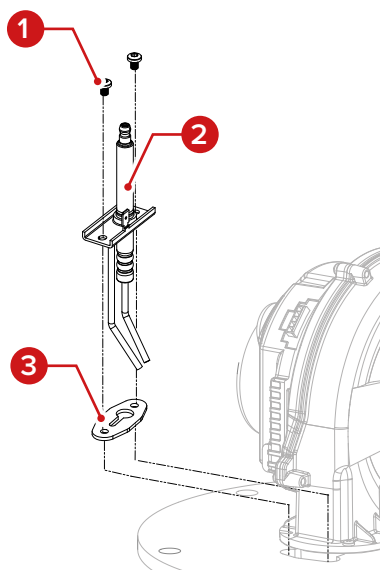
1. Reconnect the grounding cable to the electrode.
2. Reconnect the ignition cable to the electrical box.



WaterMaster® 25(X) - 35 - 45(X) Evo 2



WaterMaster® 60 - 70(X) - 85 Evo 2



WaterMaster® 120 Evo 2

## REMOVAL AND INSTALLATION OF THE BURNER - WM 25 (X) TO 85 EVO 2

### Set-up conditions

- Appliance shut down
- External power supply isolated
- Gas supply closed
- Front and top panels removed (refer to ML booklet).
- Electrode removed or electrode grounding cable and ignition cable disconnected (refer to *"Removal, Check and Installation of the Burner Electrode"* on page 47).

### Removal procedure

1. Disconnect all plugs from the fan assembly (11) and the gas valve (2) and any grounding cable, as required.
2. Disconnect the air inlet elbow (3).
3. Release the gas connection (1).
4. Using a socket wrench, release the burner hood (8) attaching hex. screws and retain them for reinstallation.
5. Lift the burner assembly and pull it out of the exchanger with its insulation block (7).
6. If required, clean the exchanger, see *"Cleaning the Exchanger"* on page 50.
7. If not removed previously, remove, check and reinstall the electrode, refer to *"Removal, Check and Installation of the Burner Electrode"* on page 47.

### Installation procedure

1. Reinstall the burner assembly with its insulation block (7) into the exchanger.
2. Install the retaining screws of the burner hood (8) and fasten them in a crosswise pattern at the required tightening torque (refer to *"Torque Values"* on page 44).

3. Reconnect the gas connection (1).

 **When connecting the air inlet, make sure that the check valve (4) is correctly located at the elbow (3) end.**

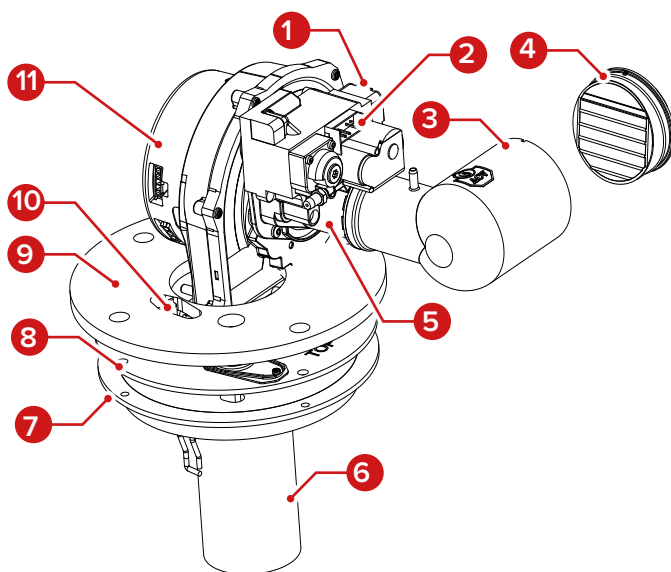
4. Reconnect the air inlet elbow (3).
5. Reconnect the plugs to the gas valve (2) and the fan assembly (11), and any disconnected grounding cable.

### Follow-on tasks

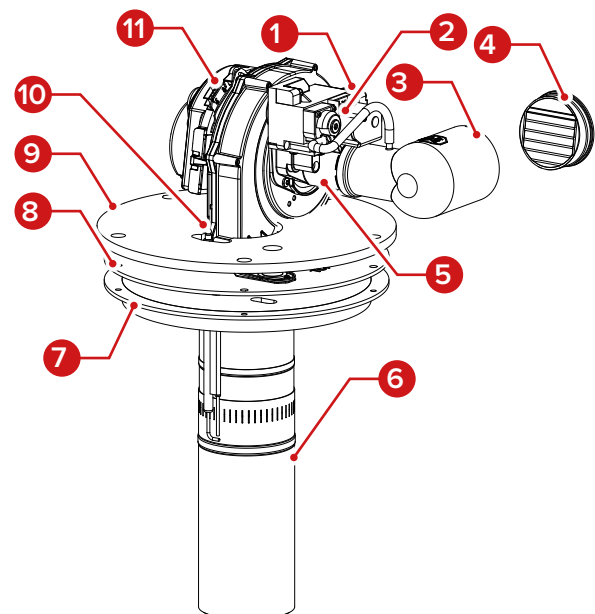
1. Install the electrode, or reconnect the electrode grounding cable and ignition cable, as required. Refer to *"Removal, Check and Installation of the Burner Electrode"* on page 47.

### Detail of the burner components

|     |                                  |
|-----|----------------------------------|
| 1.  | Gas pipe connection to gas valve |
| 2.  | Gas valve with compensation hose |
| 3.  | Air inlet elbow(s)               |
| 4.  | Air inlet check valve            |
| 5.  | Venturi                          |
| 6.  | Burner tube                      |
| 7.  | Insulation block                 |
| 8.  | Burner hood                      |
| 9.  | Burner hood insulation           |
| 10. | Electrode                        |
| 11. | Fan assembly                     |



WaterMaster® 25(X)-35-45(X) Evo 2



WaterMaster® 60-70(X)-85 Evo 2

## REMOVAL AND INSTALLATION OF THE BURNER - WM 120 EVO 2

### Set-up conditions

- Appliance shut down
- External power supply isolated
- Gas supply closed
- Front and top panels removed (refer to ML booklet).
- Electrode removed (refer to *"Removal, Check and Installation of the Burner Electrode" on page 47*).

### Removal procedure

1. Disconnect all plugs from the fan assembly (11) and the gas valve (2) and any grounding cable, as required.
2. Release clamp and remove air inlet hose from elbow (3).
3. Disconnect the air inlet elbows (3) from the venturi (5).
4. Disconnect the gas connection (1) flange from the gas valve (2) by releasing four screws. Retain hardware for reinstallation.
5. Discard O-ring.
6. Using a socket wrench, release the burner hood (8) attaching hex. screws and retain them for reinstallation.
7. Lift the burner assembly and pull it out of the exchanger with its insulation block (7)..
8. If required, clean the exchanger, see *"Cleaning the Exchanger" on page 50*.

### Installation procedure

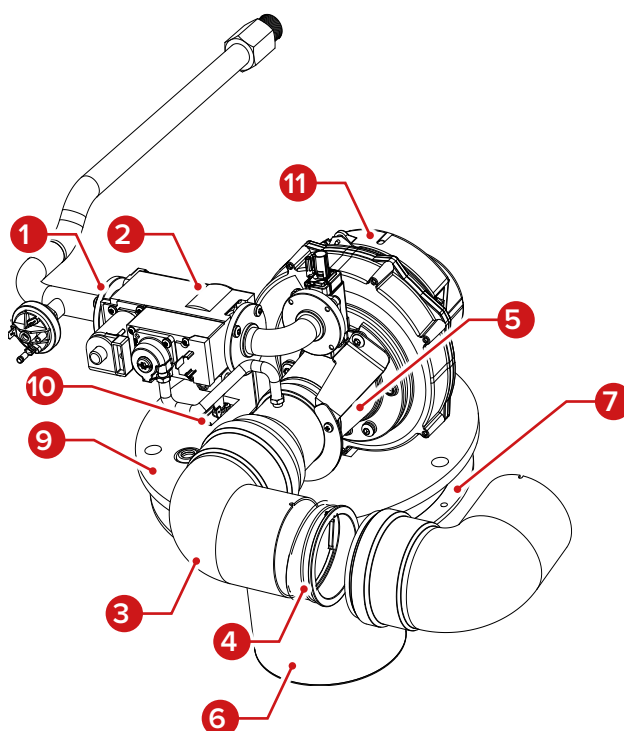
1. Reinstall the burner assembly with its insulation block (7). into the exchanger.
2. Install the retaining screws of the burner hood (8) and fasten them in a crosswise pattern at the required tightening torque (refer to *"Torque Values" on page 44*).
3. Install a new O-ring on the gas connection (1) flange.
4. Reconnect the gas connection (1) flange to the gas valve (2) using four retained screws.

 **When connecting the air inlet, make sure that the check valve (4) is correctly located at the elbow (3) end.**

5. Reconnect the air inlet elbows (3).
6. Install the air inlet hose on the elbow (3) and secure with retained clamp.
7. Reconnect the plugs to the gas valve (2) and the fan assembly (11), and any disconnected grounding cable.

### Follow-on tasks

1. Install the electrode. Refer to *"Removal, Check and Installation of the Burner Electrode" on page 47*.



WaterMaster® 120 Evo 2

## CLEANING THE EXCHANGER

### Set-up conditions

- Appliance shut down
- External power supply isolated
- Gas supply closed
- Burner removed i.a.w. procedure *"Removal and Installation of the Burner - WM 25 (X) to 85 Evo 2" on page 48*, or *"Removal and Installation of the Burner - WM 120 Evo 2" on page 49*.
- Front and top panels open, refer to ML Booklet.

### Procedure

1. Brush and vacuum clean the chamber.
2. Pour some water in the chamber to flush away any foreign deposits that may be present in the heat exchanger.
3. Remove and clean the condensate trap.
4. Reinstall the condensate trap, refer to *"appliance Preparation" on page 33*.

### Follow-on tasks

1. Reinstall the burner according to procedure *"Removal and Installation of the Burner - WM 25 (X) to 85 Evo 2" on page 48* or *"Removal and Installation of the Burner - WM 120 Evo 2" on page 49*.
2. Restart the appliance in accordance with the next procedure *"Restarting after Maintenance"*.

## RESTARTING AFTER MAINTENANCE

### Set-up conditions

- All removed components reinstalled
- All connections made
- Power supply
- Gas supply open
- Hydraulic circuit(s) full of water

### Procedure

1. Make sure there is no gas leak at the gas connections.
2. Switch the appliance on using the ON/OFF master switch.
3. Set the appliance at maximum power and check the absence of flue gas leaks.
4. Check the gas pressure and CO<sub>2</sub> adjustment in accordance with *"Checking and Adjusting the Burner" on page 43*.

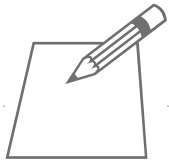
### Follow-on tasks

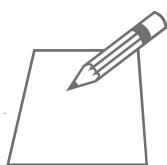
None

| Codes | Description of the fault                                                                                           | Solution for the fault                                                                                                                                                                                                                                                                                                                                                        |
|-------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E 01  | <b>Failed ignition:</b> The burner failed to light after 5 ignition attempts.                                      | <ol style="list-style-type: none"> <li>1. Check gas supply to appliance.</li> <li>2. Check Ignition cable connection in control box.</li> <li>3. Check electrode for defects, and distance between the pins.</li> <li>4. Check gas valve and electrical connections to gas valve.</li> </ol>                                                                                  |
| E 02  | <b>False flame:</b> Flame detected prior to ignition.                                                              | <ol style="list-style-type: none"> <li>1. Check good electrical ground connection to unit.</li> <li>2. Check electrode for pollution and deposition of dirt.</li> </ol>                                                                                                                                                                                                       |
| E 03  | <b>High Boiler temp. :</b> The appliance temperature exceeds 105°C                                                 | <p>Correct condition which caused high temperature or limit to open.</p> <ol style="list-style-type: none"> <li>1. Check water flow in the system (radiator valves).</li> <li>2. Check Pump and pump electrical connections.</li> </ol>                                                                                                                                       |
| E 05  | <b>Blower speed:</b> Blower speed not correct or speed signal is not received by ACVMax.                           | <ol style="list-style-type: none"> <li>1. Check blower and wiring harness.</li> <li>2. Under normal condition if actual fan speed is 1000 rpm different from set fan speed an error is displayed (after 60sec in running and after 30 sec. at startup).</li> <li>3. Only exception when actual fan speed &gt; 3000 rpm at max. PWM.</li> </ol>                                |
| E 07  | <b>High Flue temp.:</b> Flue temperature exceeds high limit.                                                       | <ol style="list-style-type: none"> <li>1. Heat exchanger may require cleaning.</li> <li>2. Appliance will automatically reset once flue temperature returns to normal range.</li> </ol>                                                                                                                                                                                       |
| E 08  | <b>Flame Circuit Error:</b> Flame circuit test failed                                                              | <ol style="list-style-type: none"> <li>1. Turn appliance off.</li> <li>2. Check and clean the electrode.</li> <li>3. Check ignition and grounding cables are firmly connected.</li> </ol>                                                                                                                                                                                     |
| E 09  | <b>Gas valve circuit error:</b> Gas valve circuit test failed.                                                     | <ol style="list-style-type: none"> <li>1. Check the gas valve and wiring harness.</li> <li>2. If the problem persists replace the "ACVMax" circuit board.</li> </ol>                                                                                                                                                                                                          |
| E 12  | <b>Internal Fault:</b> EEPROM misconfiguration                                                                     | <ol style="list-style-type: none"> <li>1. Turn unit off and on to resume normal operation.</li> <li>2. If the problem persists replace the "ACVMax" circuit board.</li> </ol>                                                                                                                                                                                                 |
| E 13  | <b>Reset limit reached:</b> Resets are limited to 5 every 15 minutes.                                              | <ol style="list-style-type: none"> <li>1. Turn unit off and on to resume normal operation.</li> <li>2. If the problem persists replace the "ACVMax" circuit board.</li> </ol>                                                                                                                                                                                                 |
| E 15  | <b>Sensor Drift:</b> Supply or return sensor reading has drifted.                                                  | Check supply and return temperature sensors and wiring harness.                                                                                                                                                                                                                                                                                                               |
| E 16  | <b>Supply Sensor Stuck:</b> Supply sensor reading is not changing.                                                 | <ol style="list-style-type: none"> <li>1. Check supply temperature sensor and wiring harness for shortcuts or other defects.</li> <li>2. Check waterflow and the temperature balance in the system, because primary supply temperature does not change.</li> </ol>                                                                                                            |
| E 17  | <b>Return Sensor Stuck:</b> Return sensor reading is not changing.                                                 | <ol style="list-style-type: none"> <li>1. Check return temperature sensor and its position, check wiring harness for shortcuts or other defects.</li> <li>2. Check waterflow and the temperature balance in the system, because primary return temperature does not change.</li> <li>3. Failure may happen at low output capacity when supplying from a big tank !</li> </ol> |
| E 18  | <b>Sensor Failure:</b> Supply or return sensor reading changed very rapidly.                                       | Check supply and return temperature sensors and wiring harness.                                                                                                                                                                                                                                                                                                               |
| E19   | <b>Flame Failure:</b> Flame failure during start up phase                                                          | <p>Flame loss after start up of the appliance.</p> <ol style="list-style-type: none"> <li>1. Check the flue system for blockage and check the adjustment of the appliance.</li> <li>2. Also check the Ignition / Ionisation rod (distance to the burner / pollution)</li> </ol>                                                                                               |
| E 21  | <b>Internal Control Fault:</b> A / D conversion error.                                                             | Turn unit off and on then press OK to resume normal operation.                                                                                                                                                                                                                                                                                                                |
| E 25  | <b>Internal Control Fault:</b> CRC check error.                                                                    | Turn unit off and on to resume normal operation.                                                                                                                                                                                                                                                                                                                              |
| E 30  | <b>Supply Sensor Shorted:</b> A short circuit has been detected in the appliance supply temperature sensor circuit | <ol style="list-style-type: none"> <li>1. Check supply temperature sensor and wiring harness for a short circuit.</li> <li>2. If necessary replace the sensor, or the wire harness.</li> <li>3. After fixing the problem, reset the appliance and resume normal operation.</li> </ol>                                                                                         |
| E 31  | <b>Supply Sensor Open:</b> An open circuit has been detected in the appliance supply temperature sensor circuit    | <ol style="list-style-type: none"> <li>1. Check supply temperature sensor, connectors and wiring harness for an open circuit.</li> <li>2. If necessary replace the sensor, or the wire harness.</li> <li>3. After fixing the problem reset the appliance and resume normal operation.</li> </ol>                                                                              |
| E 32  | <b>DHW Sensor Shorted:</b> A short circuit has been detected in the DHW temperature sensor circuit                 | <ol style="list-style-type: none"> <li>1. Check DHW temperature sensor and wiring harness for a short circuit.</li> <li>2. If necessary replace the sensor, or the wire harness.</li> <li>3. After fixing the problem reset the appliance and resume normal operation.</li> </ol>                                                                                             |

| Codes | Description of the fault                                                                                            | Solution for the fault                                                                                                                                                                                                                                                                                                                                    |
|-------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E 33  | <b>DHW Sensor Open:</b> An open circuit has been detected in the DHW temperature sensor circuit                     | <ol style="list-style-type: none"> <li>1. Check DHW temperature sensor, connectors and wiring harness for an open circuit.</li> <li>2. If necessary replace the sensor, or the wire harness.</li> <li>3. After fixing the problem reset the appliance and resume normal operation.</li> </ol>                                                             |
| E 34  | <b>Low Voltage:</b> Line voltage has fallen below an acceptable operating level.                                    | The appliance will automatically reset once line voltage returns to normal.                                                                                                                                                                                                                                                                               |
| E 37  | <b>Low Water:</b> Water level has fallen below 0.07 MPa (0.7 bar).                                                  | <ol style="list-style-type: none"> <li>1. Increase pressure to normal range.</li> <li>2. The appliance will automatically reset once water level returns to normal.</li> </ol>                                                                                                                                                                            |
| E 43  | <b>Return Sensor Shorted:</b> A short circuit has been detected in the appliance return temperature sensor circuit. | <ol style="list-style-type: none"> <li>1. Check return temperature sensor and wiring harness for a short circuit.</li> <li>2. If necessary replace the sensor, or the wire harness.</li> <li>3. After fixing the problem, reset the appliance and resume normal operation.</li> </ol>                                                                     |
| E 44  | <b>Return Sensor Open:</b> An open circuit has been detected in the appliance return temperature sensor circuit.    | <ol style="list-style-type: none"> <li>1. Check return temperature sensor, connectors and wiring harness for an open circuit.</li> <li>2. If necessary replace the sensor, or the wire harness.</li> <li>3. After fixing the problem, reset the appliance and resume normal operation.</li> </ol>                                                         |
| E 45  | <b>Flue Sensor Shorted:</b> A short circuit has been detected in the appliance flue temperature sensor circuit      | <ol style="list-style-type: none"> <li>1. Check flue temperature sensor and wiring harness for a short circuit.</li> <li>2. If necessary replace the sensor, or the wire harness.</li> <li>3. After fixing the problem reset the appliance and resume normal operation.</li> </ol>                                                                        |
| E 46  | <b>Flue Sensor Open:</b> An open circuit has been detected in the appliance flue temperature sensor circuit.        | <ol style="list-style-type: none"> <li>1. Check flue temperature sensor, connectors and wiring harness for an open circuit.</li> <li>2. If necessary replace the sensor, or the wire harness.</li> <li>3. After fixing the problem reset the appliance and resume normal operation.</li> </ol>                                                            |
| E47   | <b>Water pressure sensor error:</b> Water pressure sensor is disconnected or broken                                 | <ol style="list-style-type: none"> <li>1. Check water pressure sensor, connectors and wiring harness.</li> <li>2. If necessary replace the sensor, or the wire harness.</li> <li>3. After fixing the problem reset the appliance and resume normal operation.</li> </ol>                                                                                  |
| E 76  | <b>Gas pressure switch open</b>                                                                                     | <ol style="list-style-type: none"> <li>1. Check both the static and the dynamic gas pressures.</li> <li>2. Correct condition which caused the pressure switch to open</li> <li>3. Appliance will automatically reset once the pressure switch is closed.</li> </ol>                                                                                       |
|       | <b>External Limit Open:</b> An external automatic reset appliance limit has opened.                                 | <ol style="list-style-type: none"> <li>1. Correct condition which caused limit to open.</li> <li>2. Appliance will automatically reset once external limit closes</li> </ol>                                                                                                                                                                              |
| E 77  | <b>High temperature mixing circuit</b>                                                                              | Check if the mixing valve functions correctly.                                                                                                                                                                                                                                                                                                            |
| E 78  | <b>Mix circuit sensor shorted</b>                                                                                   | <ol style="list-style-type: none"> <li>1. Check Mix circuit temp. sensor and wiring harness for a short circuit.</li> <li>2. If necessary replace the sensor, or the wire harness.</li> <li>3. After fixing the problem reset the appliance and resume normal operation.</li> </ol>                                                                       |
| E 79  | <b>Mix-circuit sensor Open</b>                                                                                      | <ol style="list-style-type: none"> <li>1. Check Mix circuit temp. sensor and wiring harness for an open circuit.</li> <li>2. If necessary replace the sensor, or the wire harness.</li> <li>3. After fixing the problem reset the appliance and resume normal operation.</li> </ol>                                                                       |
| E 80  | <b>Return &gt; Supply:</b> Return temperature is higher than supply temperature.                                    | Confirm water flows in appliance return and out appliance supply.                                                                                                                                                                                                                                                                                         |
| E 81  | <b>Sensor Drift:</b> Supply and return temperatures are not equal.                                                  | <ol style="list-style-type: none"> <li>1. Check water is flowing through appliance.</li> <li>2. Wait a few minutes for the water to equalise the temperature, the appliance will automatically reset once temperatures become equal.</li> <li>3. If appliance doesn't reset, check the NTC's and check the wire harness, replace if necessary.</li> </ol> |
| E82   | <b>Delta T protection blocking - Delta T too high</b>                                                               | <ol style="list-style-type: none"> <li>1. Verify flow in the system.</li> <li>2. Check pump for blockage and obstructions, unblock it as required. Replace if necessary.</li> </ol>                                                                                                                                                                       |
| E83   | <b>Delta T protection Lock-out - Lock-out due to Delta T value.</b>                                                 | <ol style="list-style-type: none"> <li>1. Verify flow in the system.</li> <li>2. Check pump for blockage and obstructions, unblock it as required. Replace if necessary.</li> </ol>                                                                                                                                                                       |
| E 85  | <b>Pump operation: warning - Appliance pump is running out of limits.</b>                                           | Pump is running out of its limits. Check pump for blockage and obstructions, replace if necessary                                                                                                                                                                                                                                                         |
| E 86  | <b>Pump hard fault:</b> Pump Failure                                                                                | Pump Failure, check if pump PWM-feedback wire is properly connected, replace pump when necessary                                                                                                                                                                                                                                                          |

| Codes | Description of the fault                                                                                    | Solution for the fault                                                                                                                                                                                          |
|-------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E 87  | <b>External Limit Open:</b> An external appliance limit has opened.                                         | 1. Correct condition which caused limit to open, then reset appliance.<br>2. The appliance needs to be reset once external limit closes.                                                                        |
| E88   | <b>Pump Blocking:</b> Pump attempts to restart.                                                             | Check pump for blockage and obstructions, unblock it as required. Replace if necessary.                                                                                                                         |
| E 89  | <b>Incorrect Setting:</b> A parameter setting is outside the settings range.                                | 1. Review primary/CH & DHW settings and correct as necessary.<br>2. The appliance will automatically reset once corrected.                                                                                      |
| E 90  | <b>Firmware Mismatch:</b> Control module and display firmware versions are incompatible.                    | One or several components are not compatible with the system. Replace mismatched component(s).                                                                                                                  |
| E 91  | <b>System Sensor Shorted:</b> A short circuit has been detected in the system temperature sensor circuit    | 1. Check system temperature sensor and wiring for a short circuit.<br>2. If necessary replace the sensor, or the wire harness.<br>3. After fixing the problem reset the appliance and resume normal operation.  |
| E 92  | <b>System Sensor Open:</b> An open circuit has been detected in the system temperature sensor circuit.      | 1. Check system temperature sensor and wiring for an open circuit.<br>2. If necessary replace the sensor, or the wire harness.<br>3. After fixing the problem reset the appliance and resume normal operation.  |
| E 93  | <b>Outdoor Sensor Shorted:</b> A short circuit has been detected in the outdoor temperature sensor circuit. | 1. Check outdoor temperature sensor and wiring for a short circuit.<br>2. If necessary replace the sensor, or the wire harness.<br>3. After fixing the problem reset the appliance and resume normal operation. |
| E 94  | <b>Internal Display Fault:</b> Display memory error                                                         | Turn unit off and on to resume normal operation.                                                                                                                                                                |
| E 95  | <b>Supply Sensor Error:</b> Supply sensor reading is invalid                                                | 1. Check wiring between display and control module.<br>2. If necessary replace the sensor, or the wire harness.<br>3. After fixing the problem reset the appliance and resume normal operation.                 |
| E 96  | <b>Outdoor Sensor Open:</b> An open circuit has been detected in the outdoor temperature sensor circuit.    | 1. Check outdoor temperature sensor and wiring for an open circuit.<br>2. If necessary replace the sensor, or the wire harness.<br>3. After fixing the problem reset the appliance and resume normal operation. |
| E 97  | <b>Cascade Mismatch:</b> Cascade configuration has changed.                                                 | 1. Run autodetection if change was intentional, or else check wiring between appliances.<br>2. Appliance will automatically reset once repaired.                                                                |
| E 98  | <b>Cascade Bus Error:</b> Communication with other appliances has been lost.                                | 1. Check wiring between appliances.<br>2. Appliance will automatically reset once repaired.                                                                                                                     |
| E 99  | <b>Controller Bus Error:</b> Communication between appliance display and control module has been lost.      | 1. Check wiring between components.<br>2. Appliance will automatically reset once repaired.                                                                                                                     |





A series of horizontal lines for writing or drawing, spanning the width of the page.



[www.acv.com](http://www.acv.com)



Groupe Atlantic Manufacturing Belgium  
Rue Henry Becquerel, 1  
7180 Seneffe  
Belgium

# WaterMaster

25 - 35 - 45 - 60 - 70 - 85 - 120 Evo 2

25 - 45 - 70 X Evo 2



|                                                                                   |    |
|-----------------------------------------------------------------------------------|----|
|  | 6  |
|  | 9  |
|  | 14 |
|  | 20 |



Dimensions - Afmetingen - Abmessungen - Dimensiones - Dimensioni - Wymiary - Габаритные размеры



Wiring diagrams - Schémas électriques - Elektrische schema's - Schaltplan - Esquemas eléctricos - schema elettrico - schematy połączeń - схемы подключения



Information - Informatie - Informationen - Informaciones - Informazioni - Informacje - Информация



Assembly - Assemblage - Montage - Montaje - Montaggio - Montaż - монтаж



Gas Connection - Raccordement gaz - Gasaansluiting - Gasanschluss - Conexión de gas - Collegamento gas - Podłączenie gazu - Подключение газа



Condensate trap (ball syphon) - Siphon (condensats) - Sifon - Kondensatfalle (Ball-Syphon) - Recogida de condensados (sifón de bola) - Sifone scarico condensa - Syfon kondensatu - Сифон для отведения конденсата



Domestic Hot Water circuit - Circuit sanitaire - circuit sanitair warm water (SWW) - Warmwasserkreislauf - Circuito de agua caliente sanitaria - Acqua calda sanitaria - Obieg ciepłej wody - Контур ГВС



Primary circuit - Circuit primaire - Primaire kring - Primärkreislauf - Circuito primario - Obieg grzewczy - Отопительный контур



DHW Recirculation - Recirculation sanitaire - Recirculatie SWW - Rezirkulation Warmwasser - Recirculación de ACS - Ricircolo di acqua sanitaria - Recyrkulacja c.w. - Рециркуляция ГВС



Safety valve connected to the sewage system - Soupape de sécurité raccordée à l'égout - Veiligheidsklep aangesloten op de riolering - Sicherheitsventil mit Verbindung an die Kanalisation - Válvula de seguridad que conectar a la red de alcantarillado - Valvola di sicurezza (con scarico convogliato) - Zawór bezpieczeństwa podłączony do kanalizacji - Сливное отверстие предохранительного клапана должно быть подключено к дренажной линии



Connection to the sewage system - Raccordement à l'égout - Aansluiting op de riolering - Verbindung zu Kanalisation - Conexión a la red de alcantarillado - Collegamento allo scarico - Podłączenie do kanalizacji - Сливное отверстие должно быть подключено к дренажной линии



Electricity - Electricité - Elektriciteit - Elektrizität - Electricidad - Sotto tensione - Elektryczność - Электричество



Alarm - Alarme - Alarma - Allarme - Сигнал "Авария"



Disposal and recycling - Mise au rebut et recyclage - Verwijdering en recycling - Entsorgung und Recycling - Eliminación y reciclaje - Smaltimento e riciclaggio - wyrzucanie i recykling - Утилизация и переработка



Mise au rebut et recyclage des produits et notices (FRANCE uniquement)  
Consulter le livret FR.



Essential instruction for safety (of persons and equipment)  
Consigne essentielle à la sécurité (des personnes et du matériel)  
Belangrijke instructies voor de veiligheid (van personen en materiaal)  
Grundlegende Hinweise für die Sicherheit (von Personen und Geräten)  
Instrucción esencial para la seguridad (de las personas y del material)  
Istruzione essenziale per la sicurezza (delle persone e delle apparecchiature)  
Najważniejsze instrukcje bezpieczeństwa (Bezpieczeństwo osób i sprzętu)  
Основные инструкция для обеспечения безопасности (безопасность лиц и оборудования)



Essential instruction for electrical safety (electrical hazard)  
Consigne essentielle à la sécurité électrique (danger lié à la présence d'électricité)  
Belangrijke voorschriften met betrekking tot de elektrische installatie (elektrisch gevaar)  
Grundlegende Hinweise für die elektrische Sicherheit (elektrische Gefahr)  
Instrucción esencial para la seguridad eléctrica (peligro eléctrico)  
Istruzione essenziale per la sicurezza elettrica (pericolo shock elettrico)  
Najważniejsze instrukcje dla bezpieczeństwa elektrycznego (Niebezpieczeństwo porażenia).  
Основные инструкция по электрической безопасности (опасность поражения электрическим током)



Essential instruction for the correct operation of the appliance or the system  
Consigne essentielle au bon fonctionnement de l'appareil ou de l'installation  
Belangrijke instructie voor een correcte werking van het toestel of de installatie  
Grundlegende Hinweise für die korrekte Arbeitsweise der Anwendung oder des Systems  
Instrucción esencial para el correcto funcionamiento del aparato o de la instalación  
Istruzione essenziale per il corretto funzionamento dell'apparecchio o dell'impianto  
Najważniejsze instrukcje dla prawidłowej pracy urządzenia  
Основные инструкция для корректного функционирования прибора или системы



General remark - Remarque à caractère général - Algemene opmerking - Generelle Hinweise - Nota general - Nota generale - Uwaga ogólna - Общее замечание



Fragile - Breekbaar - Zerbrechlich - Frágil - Fragile - Ostrożnie - Хрупкое!



Keep dry - Maintenir au sec - Droog bewaren - Trocken aufbewahren - Manténgase seco - Tenere al riparo da acqua e umidità - Chronić przed wilgocią - Хранить в сухом месте



Keep standing up - Maintenir en position verticale - Rechtop bewaren - Aufrecht stehen lassen - Manténgase de pie - Mantenere in posizione verticale - Utrzymywać w pozycji stojącej - Располагать строго вертикально



Danger of tipping over - Risque de basculement - Kantelgevaar - Kippgefahr - Riesgo de vuelco - Pericolo di ribaltamento - Niebezpieczeństwo przewrócenia - Не опрокидывать



Hand truck or pallet truck required for transport - Utiliser un diable ou un transpalette pour le transport - Steekwagen of palletwagen gewenst voor transport - Sackkarre oder Palettenhubwagen für Transport erforderlich - Use carretilla de mano o transpalet para el transporte - Carico pesante, utilizzare carrello a mano o transpallet per la movimentazione - Wózek ręczny lub paletowy wymagany do transportu - Использование ручной тележки для транспортировки



The part number (Code) and serial number (N°) of the appliance are indicated on its rating plate and must be provided to ACV in case of warranty claim. Failure to do so will make the claim void.



Le numéro d'article (Code) et le numéro de série (N°) de l'appareil sont repris sur sa plaque signalétique et doivent être transmis à ACV dans le cas d'un appel en garantie. À défaut, l'appel en garantie sera réputé nul.



Het serienummer (N°) en de artikelcode (CODE) zijn vermeld op de typeplaat van het product, deze informatie dient aan ACV medegedeeld te worden in geval van een beschadiging aan het toestel welke onder de garantie voorwaarden valt. In geval dat deze informatie niet kan verstrekt worden vervalt de garantie.



Die Produktnummer (Code) und die Seriennummer (N°) des Kessels, welche auf dem Typenschild angegeben sind, müssen ACV im Falle einer Beanstandung vorgelegt werden! Andernfalls wird die Beanstandung nichtig gemacht.



El número de pieza (Código) y el número de serie (N°) del aparato vienen indicados en la placa de la misma y deben ser comunicadas a ACV en caso de reclamación en garantía. En caso contrario, no se atenderá la reclamación.



Il codice articolo (CODE) e la matricola (N°) dell'apparecchio indicati nella targhetta devono essere forniti ad ACV in caso di richiesta garanzia. In caso contrario non sarà possibile fare la verifica per la garanzia.



Kod urządzenia (CODE) i numer seryjny (N°) są podane na tabliczce znamionowej. Są one niezbędne w przypadku reklamacji urządzenia. Ich uszkodzenie czy usunięcie spowoduje utratę gwarancji.



Код и серийный номер устройства, указанные на заводском шильдике, должны быть представлены производителю при возникновении гарантийного случая. Без предоставления этой информации производитель в праве отказать от гарантийных обязательств.



**Made in BELGIUM**

GAMB  
Rue Henry Becquerel 1  
7180 Senefla  
BELGIUM  
www.acv.com



(21) A123456 (91) 100055424600 (92) 2025



0003325



|                               |                                        |
|-------------------------------|----------------------------------------|
| 12E(S) - G20/G25 - 20/25 mbar | BE                                     |
| 12H3P - 20/37/50 mbar         | AT                                     |
| 12H3P - 20/50 mbar            | CH, SK                                 |
| 12H3P - 20/37/50 mbar         | CZ, ES, GB, GR, HR, IE, IT, LT, PL, PT |
| 12E3P - 20/50 mbar            | DE                                     |
| 12ELL3P - 20/50 mbar          | DE                                     |
| 12H3P - 20/30 mbar            | FI, RO, SI                             |
| 12E3P - 20/25/37/50 mbar      | FR                                     |
| 12H3P - 20/30 mbar            | LU                                     |
| 12E3P - 20/25/30/50 mbar      | NL                                     |
| 12H                           | LV                                     |
| 12H - 20 mbar                 | DK                                     |

S/N: 25/A123456  
ANNO 2025  
PROD. DATE 19/08/2025  
CODE 100055424600  
CL. NOx 6  
PERFORMANCE \*\*\*\*\*  
PIN 0063CQ3618  
MODEL WaterMaster 35 Evo 2

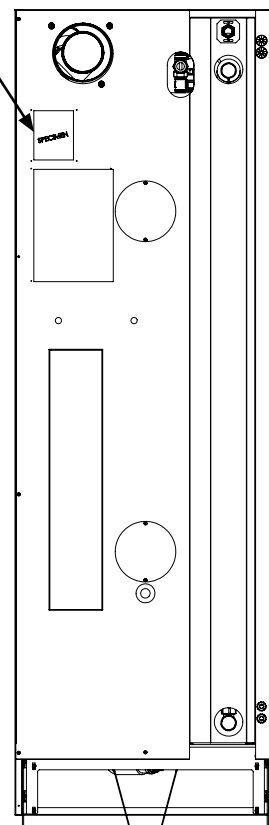
Adjusted - Réglé - Afgesteld G20 - 20 mbar  
Type: B23-B23P-C13-C33-C53-C63-C83-C93

|         |              |               |
|---------|--------------|---------------|
| ~ 230 V | PMS = 3 bar  | PMW = 7 bar   |
| 50 Hz   | Tmax = 87 °C | T max = 87 °C |
| 111 W   | 100L         | 96L           |

|         |     |     |     |       |       |
|---------|-----|-----|-----|-------|-------|
|         | G20 | G25 | G31 | G25.3 |       |
| Qn (H)  | 35  | 35  | 35  |       | 35 kW |
| Qn min  | 7   | 7   | 7   |       | 7 kW  |
| Pin     | 35  | 35  | 35  |       | 35 kW |
| Pin min | 7   | 7   | 7   |       | 7 kW  |

\* IDEX (WGBB(43.46 - 45.3 MJ/m³(°C))3P

Condensatie ketel - Chaudière à condensation - Condensing boiler - Brennwärtekessel - Caldaia a condensazione - Caldera de condensación



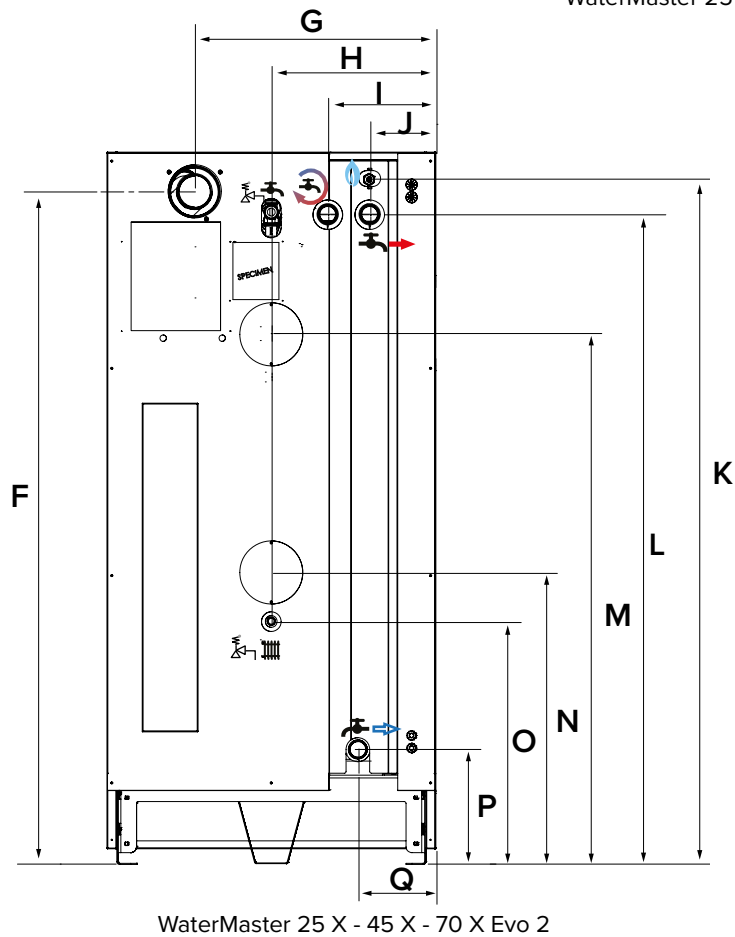
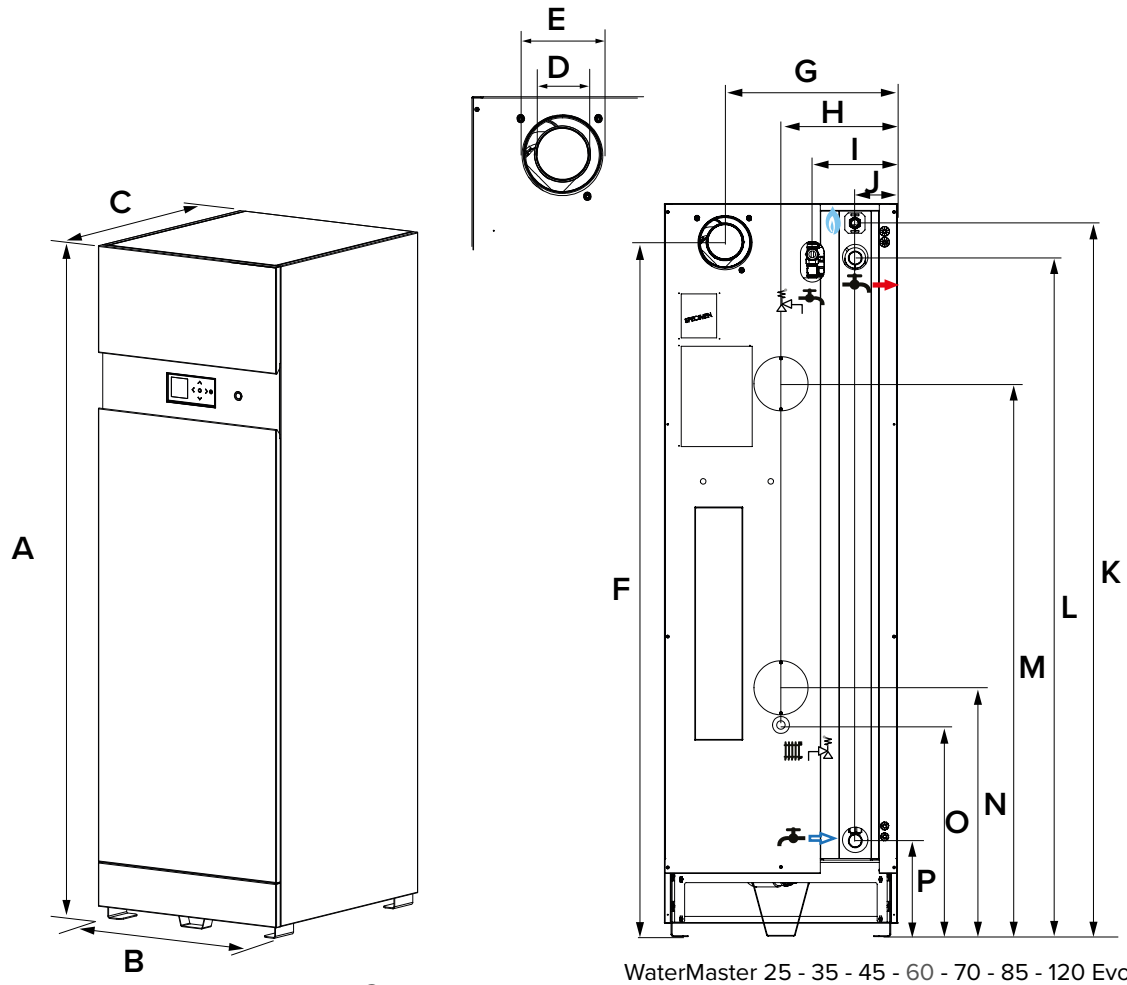
GAS CATEGORIES / CATÉGORIES DE GAZ / GASCATEGORIEËN / GAS KATEGORIEN /  
CATEGORÍAS GAS / CATEGORIA GAS / KATEGORIE GAZOWE / КАТЕГОРИИ ГАЗА

|                                                                               |                                                                | G20 | G25 |    | G20 ⇄ G25 | G31 |    |    |
|-------------------------------------------------------------------------------|----------------------------------------------------------------|-----|-----|----|-----------|-----|----|----|
| Pressure/Pression/Druk/Druck/Presión/Presione/Ciśnienie/ Давление (mbar/мбар) |                                                                | 20  | 20  | 25 | 20 ⇄ 25   | 30  | 37 | 50 |
| Country/Pays/Land/Länder/Pais/Paese/Kraj/страны                               | Category /Categorie/ Kategorie/Categoria/ Categoria/ Категория |     |     |    |           |     |    |    |
| AT                                                                            | II2H3P                                                         | ●   |     |    |           |     |    | ●  |
| BE                                                                            | I2E(S)*                                                        |     |     |    | ●         |     |    |    |
|                                                                               | I2E(R)**                                                       |     |     |    | ●         |     |    |    |
|                                                                               | I3P                                                            |     |     |    |           |     | ●  |    |
| CH                                                                            | II2H3P                                                         | ●   |     |    |           |     | ●  | ●  |
| CZ                                                                            | II2H3P                                                         | ●   |     |    |           |     | ●  |    |
| DE                                                                            | II2E3P                                                         | ●   |     |    |           |     |    | ●  |
|                                                                               | II2ELL3P                                                       | ●   | ●   |    |           |     |    | ●  |
| ES                                                                            | II2H3P                                                         | ●   |     |    |           |     | ●  |    |
| FI                                                                            | II2H3P                                                         | ●   |     |    |           | ●   |    |    |
| FR                                                                            | II2Er3P                                                        | ●   |     | ●  |           |     | ●  | ●  |
| GB                                                                            | II2H3P                                                         | ●   |     |    |           |     | ●  |    |
| GR                                                                            | II2H3P                                                         | ●   |     |    |           |     | ●  |    |
| HR                                                                            | II2H3P                                                         | ●   |     |    |           |     | ●  |    |
| IE                                                                            | II2H3P                                                         | ●   |     |    |           |     | ●  |    |
| IT                                                                            | II2H3P                                                         | ●   |     |    |           |     | ●  |    |
| LT                                                                            | II2H3P                                                         | ●   |     |    |           |     | ●  |    |
| LU                                                                            | II2E3P                                                         | ●   |     |    |           | ●   |    |    |
| LV                                                                            | I2H                                                            | ●   |     |    |           |     |    |    |
| NL                                                                            | II2EK3P***                                                     |     |     | ●  |           |     | ●  |    |
|                                                                               | II2L3P                                                         |     |     | ●  |           | ●   |    | ●  |
| PL                                                                            | II2E3P                                                         | ●   |     |    |           |     | ●  |    |
| PT                                                                            | II2H3P                                                         | ●   |     |    |           |     | ●  |    |
| RO                                                                            | II2H3P                                                         | ●   |     |    |           | ●   |    |    |
| SI                                                                            | II2H3P                                                         | ●   |     |    |           | ●   |    |    |
| SK                                                                            | II2H3P                                                         | ●   |     |    |           |     | ●  | ●  |

\* WM 25 (X) / 35 / 45 (X) / 60 / 70 (X) Evo 2

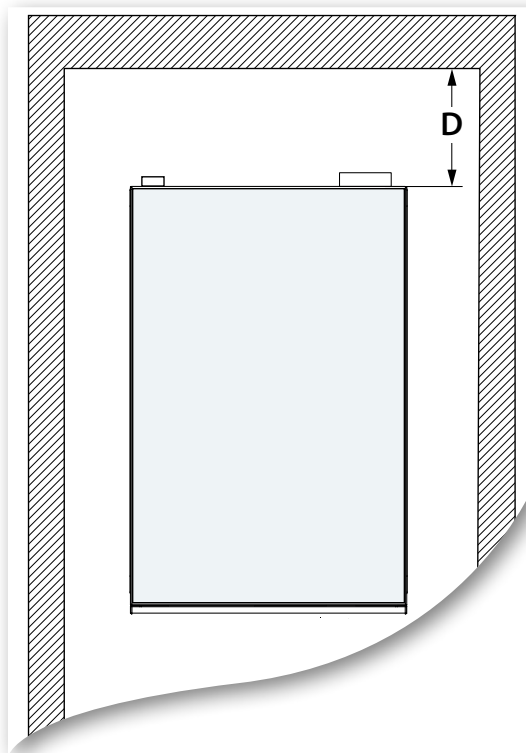
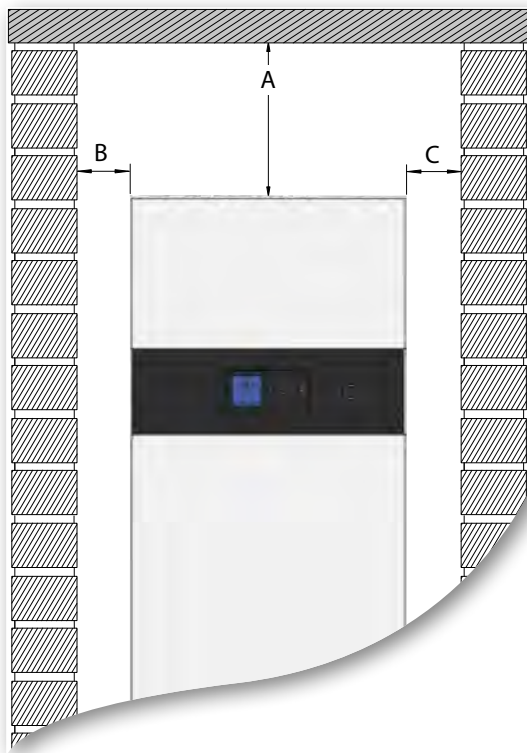
\*\* WM 85 / 120 Evo 2

\*\*\* G25.3 (II2EK (WOBBE (43.46-45.3 MJ/m³(0°C))3P



|                                                                                                                         |       | WaterMaster Evo 2 |                    |             |       |
|-------------------------------------------------------------------------------------------------------------------------|-------|-------------------|--------------------|-------------|-------|
|                                                                                                                         |       | 25 - 35 - 45      | 60 - 70 - 85 - 120 | 25 X - 45 X | 70 X  |
| A                                                                                                                       | mm/mm | 1780              | 2170               | 1810        | 2170  |
| B                                                                                                                       | mm/mm | 600               | 690                | 835         | 835   |
| C                                                                                                                       | mm/mm | 745               | 825                | 1000        | 1000  |
| D                                                                                                                       | mm/mm | 80                | 100                | 80          | 100   |
| E                                                                                                                       | mm/mm | 125               | 150                | 125         | 150   |
| F                                                                                                                       | mm/mm | 1680              | 2055               | 1710        | 2060  |
| G                                                                                                                       | mm/mm | 450               | 510                | 615         | 600   |
| H                                                                                                                       | mm/mm | 300               | 345                | 420         | 420   |
| I                                                                                                                       |       | —                 | 250                | 275         | 275   |
| J                                                                                                                       | mm/mm | 110               | 125                | 170         | 170   |
| K (  )                                 | mm/mm | 1730              | 2110               | 1740        | 2120  |
| L (  )                                 | mm/mm | 1625              | 2010               | 1650        | 2025  |
| M (primary  , with cover panel)       |       | 1415              | 1635               | 1350        | 1720  |
| N (primary  , with cover panel)      |       | 710               | 735                | 740         | 740   |
| O (  + kit)                          | mm/mm | 585               | 625                | 620         | 615   |
| P (  )                               | mm/mm | 285               | 285                | 290         | 275   |
| Q                                                                                                                       | mm/mm | —                 | —                  | 200         | 200   |
| Ø [F] -                              | "     | 1                 | 1.1/2              | 1           | 1.1/2 |
| Ø [M] -                              | "     | 1                 | 1                  | 1.1/2       | 1.1/2 |
| Ø [M] -                              | "     | —                 | —                  | 1.1/2       | 1.1/2 |
| Ø [M] -                              | "     | 3/4               | 3/4                | 3/4         | 3/4   |
| Min. Ø Flue pipe - cheminée - schouw - Abgassystems - chimenea - condotto fumi - kanał spalin - дымоотвода              | mm/mm | 80                | 100                | 80          | 100   |
| Drained weight - Poids à vide - Leeg gewicht - Leergewicht - Peso a vacío - Peso a vuoto - Waga (pusty) - Масса пустого | Kg/кг | 177               | 298                | 270         | 380   |

**CLEARANCES / DÉGAGEMENTS / AFSTANDEN  
/ ABSTÄNDE / DISTANCIAS / SPAZI LIBERI /  
ODSTĘPY/ ОСВОБОЖДЕНИЕ**

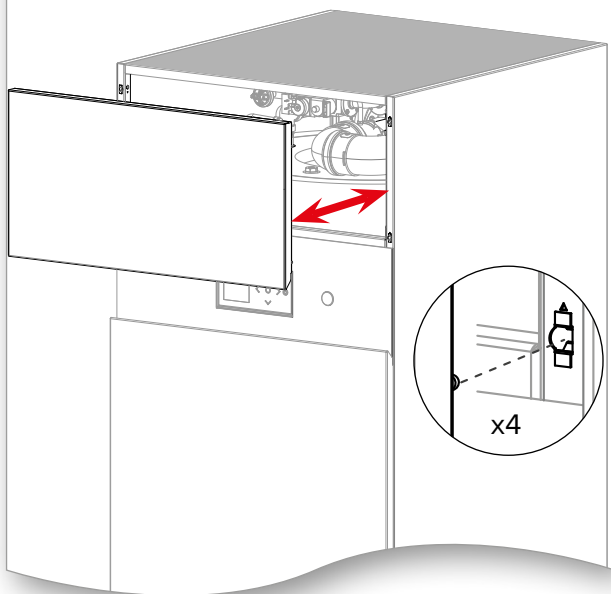


**WaterMaster Evo 2**

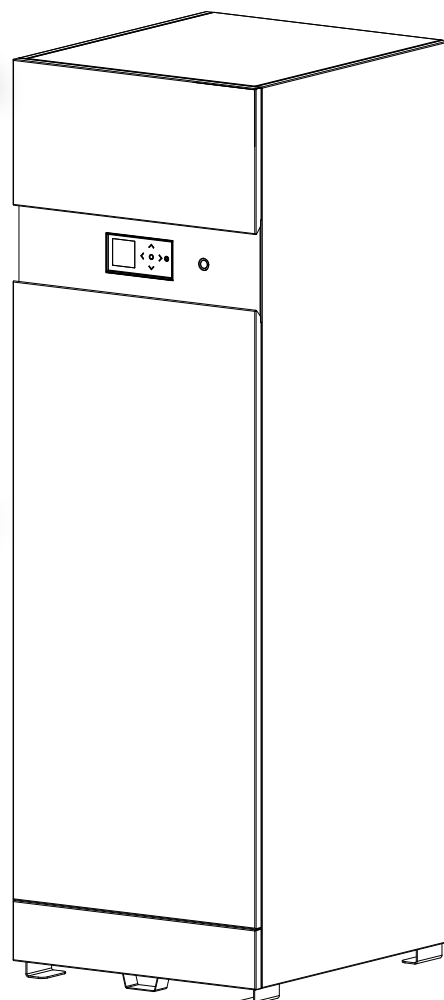
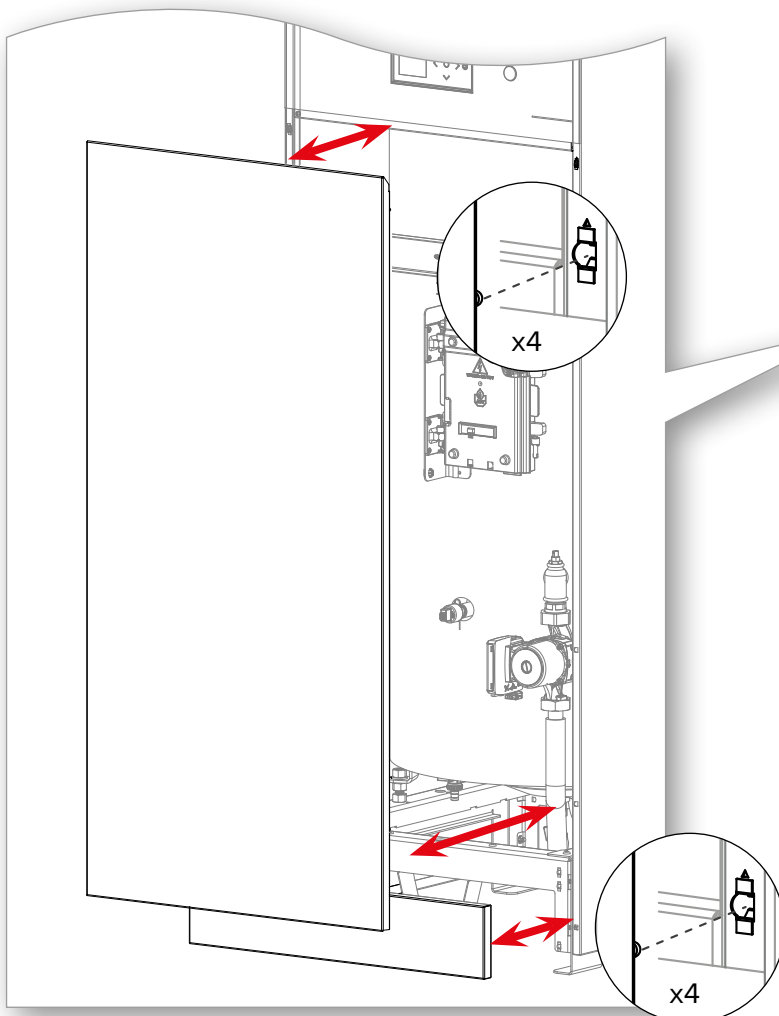
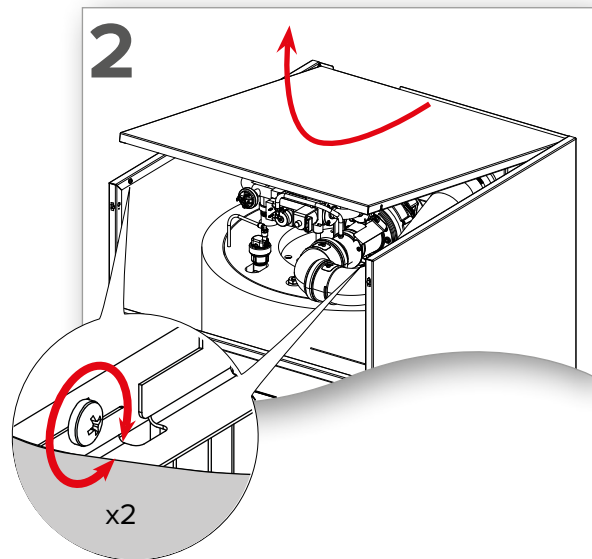
|                  |     | 25 (X) - 35 - 45 (X) | 60 - 70 (X) - 85 | 120 |
|------------------|-----|----------------------|------------------|-----|
| <b>A (mm/mm)</b> | Std | 300                  | 500              | 350 |
|                  | Min | 200                  | 400              | 250 |
| <b>B (mm/mm)</b> | Std | 800                  | 800              | 800 |
|                  | Min | 600                  | 600              | 600 |
| <b>C (mm/mm)</b> | Std | 400                  | 400              | 400 |
|                  | Min | 250                  | 250              | 250 |
| <b>D (mm/mm)</b> | Std | 600                  | 600              | 600 |
|                  | Min | 400                  | 400              | 400 |



1

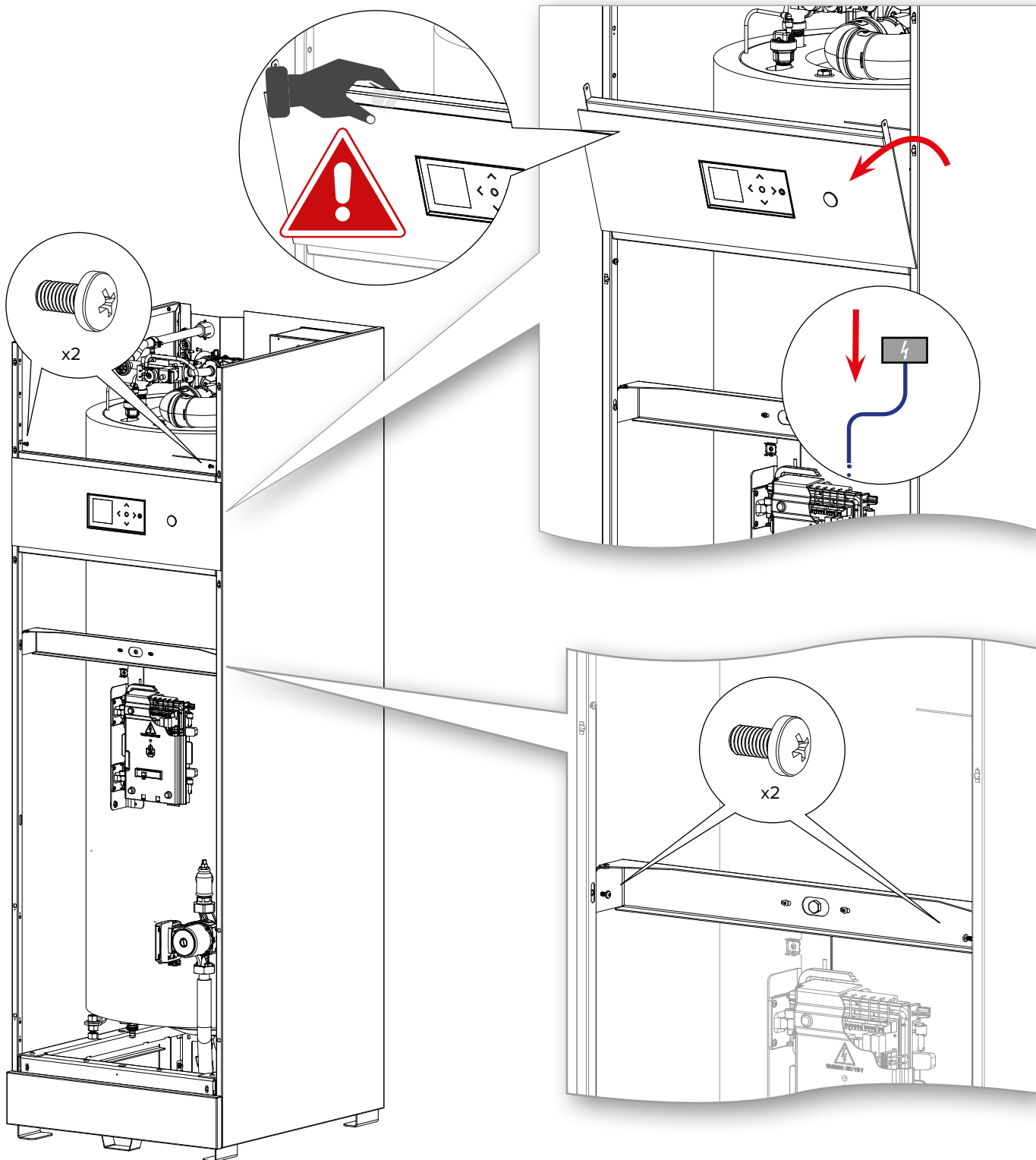


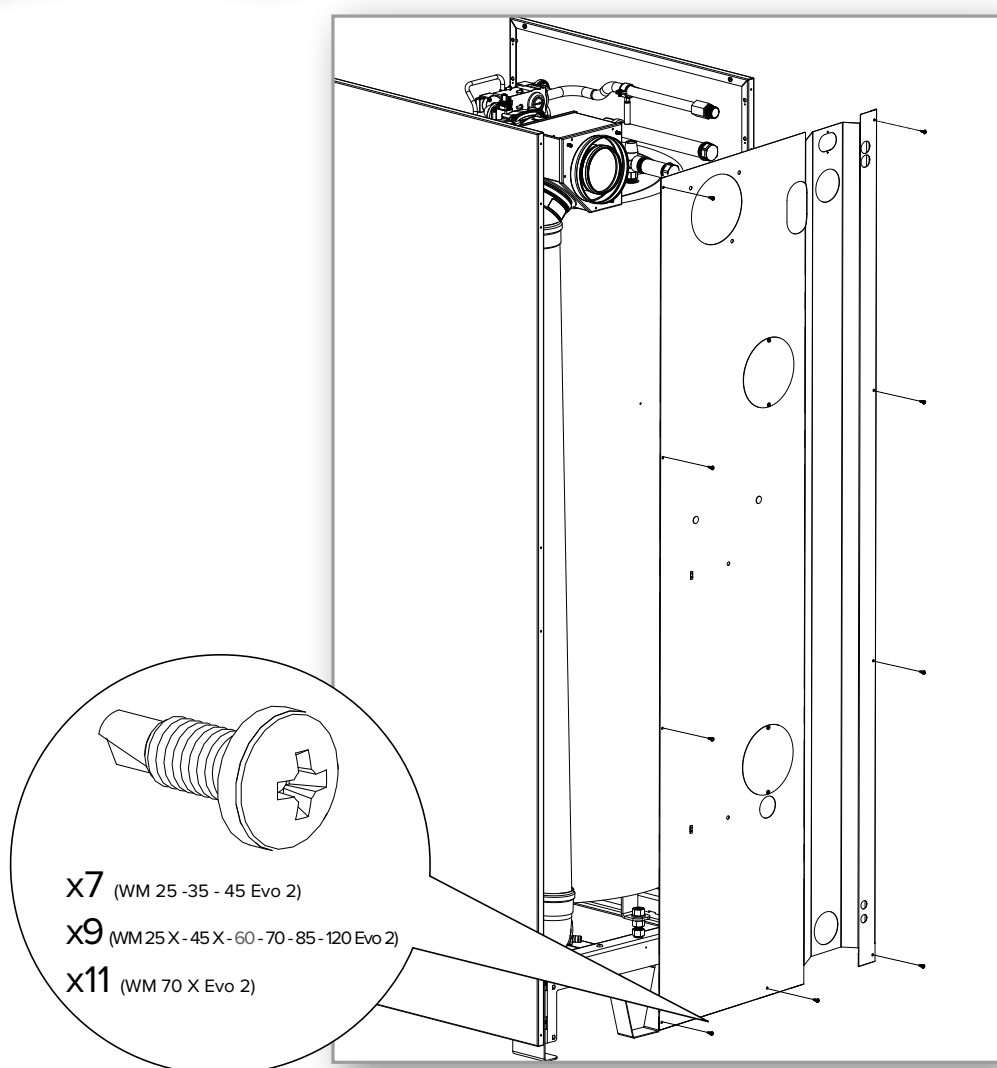
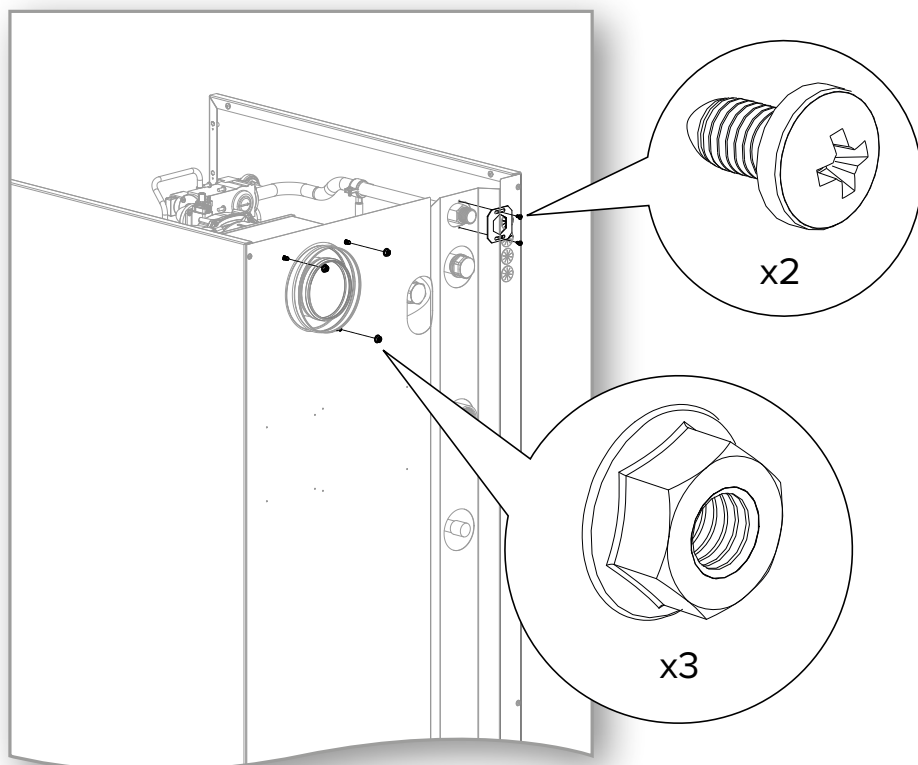
2



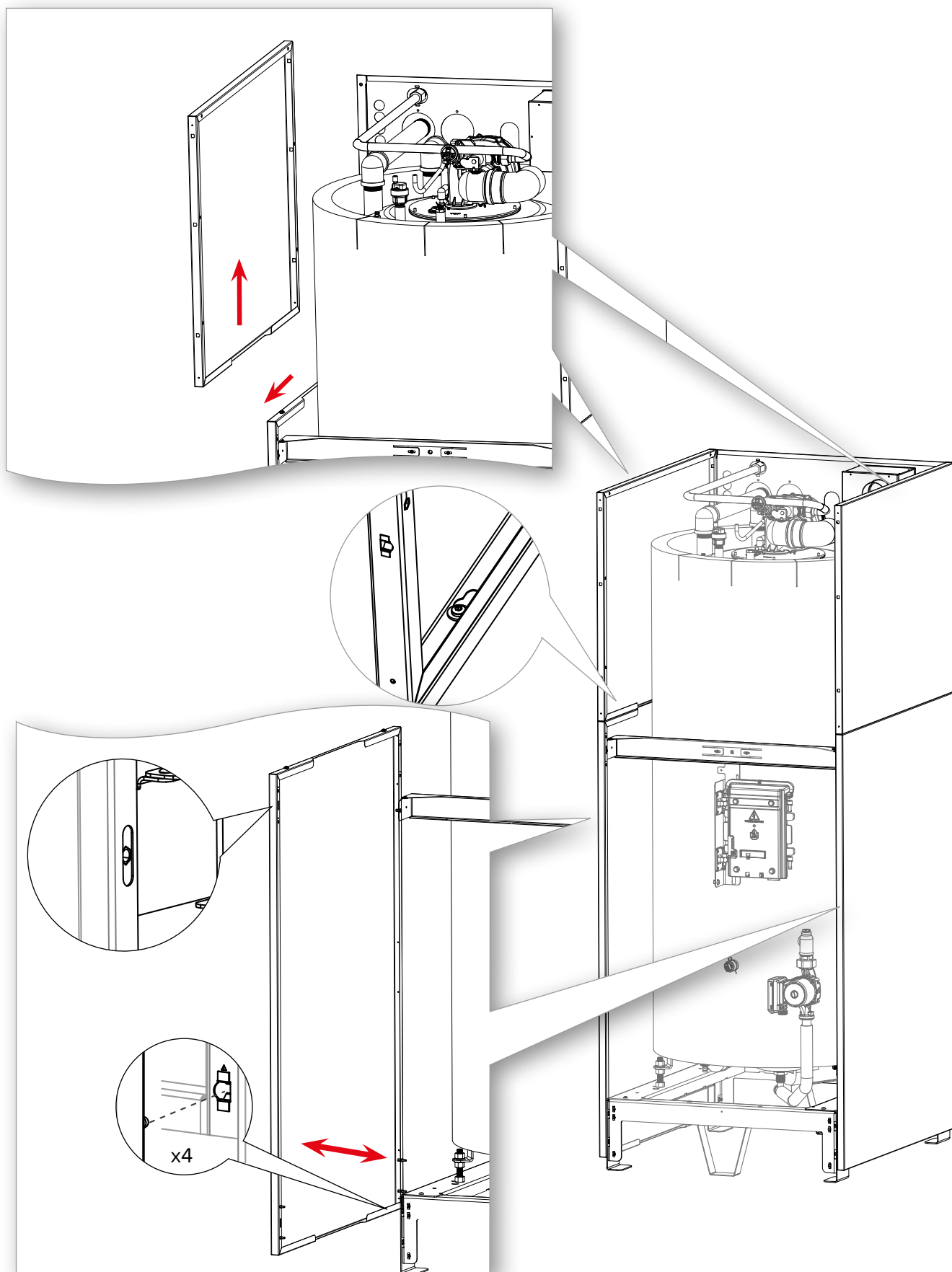


- Isolate the external power supply
- Couper l'alimentation électrique externe de l'appareil
- Verbreek de externe elektrische voeding
- Schalten Sie das Gerät stromlos
- Aísle el suministro eléctrico externo del aparato
- Interrompere l'alimentazione elettrica esterna
- Odłącz urządzenie od zasilania energią elektryczną
- Отключите электропитание

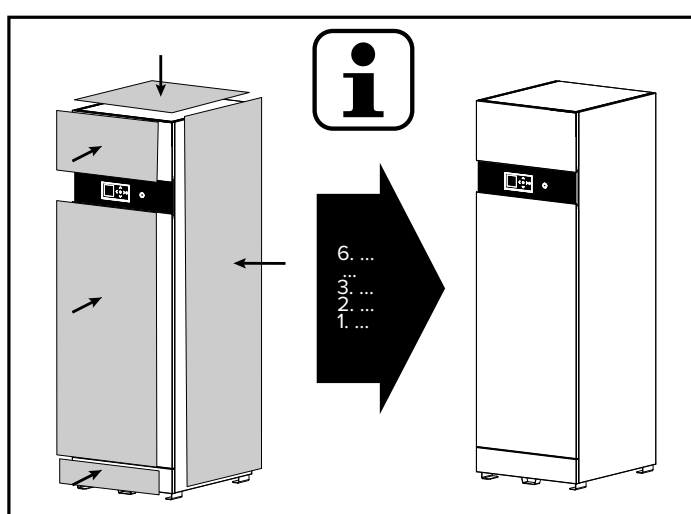
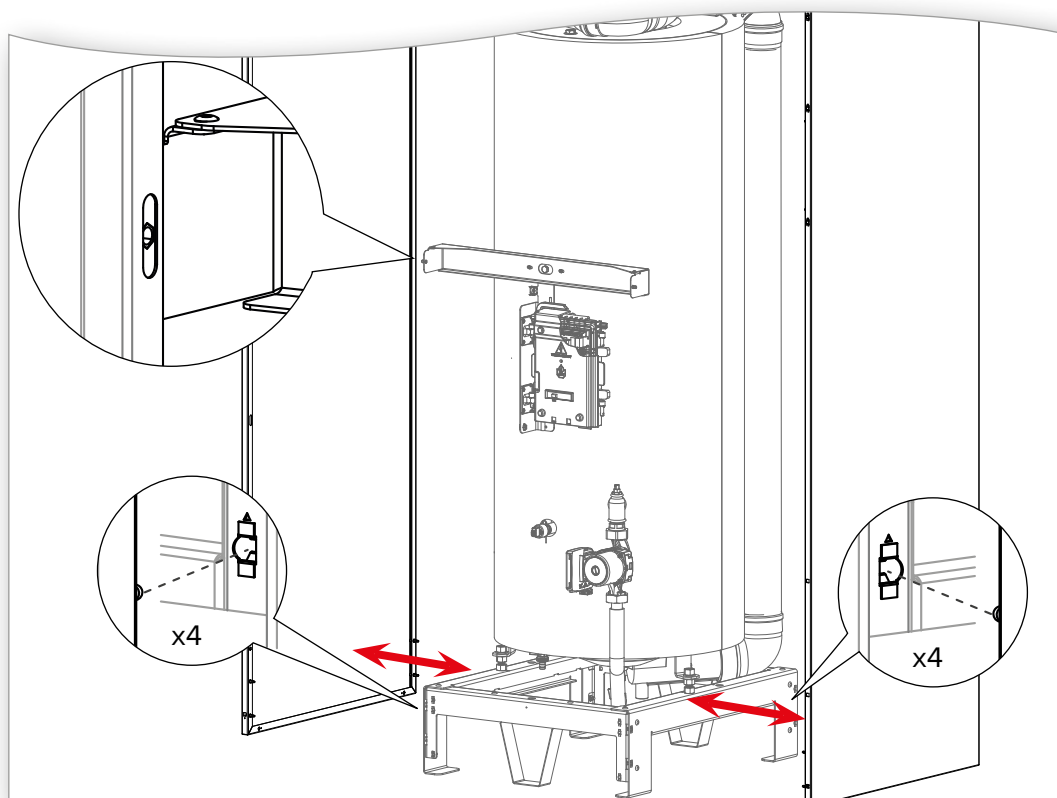




# WaterMaster 70 X Evo 2

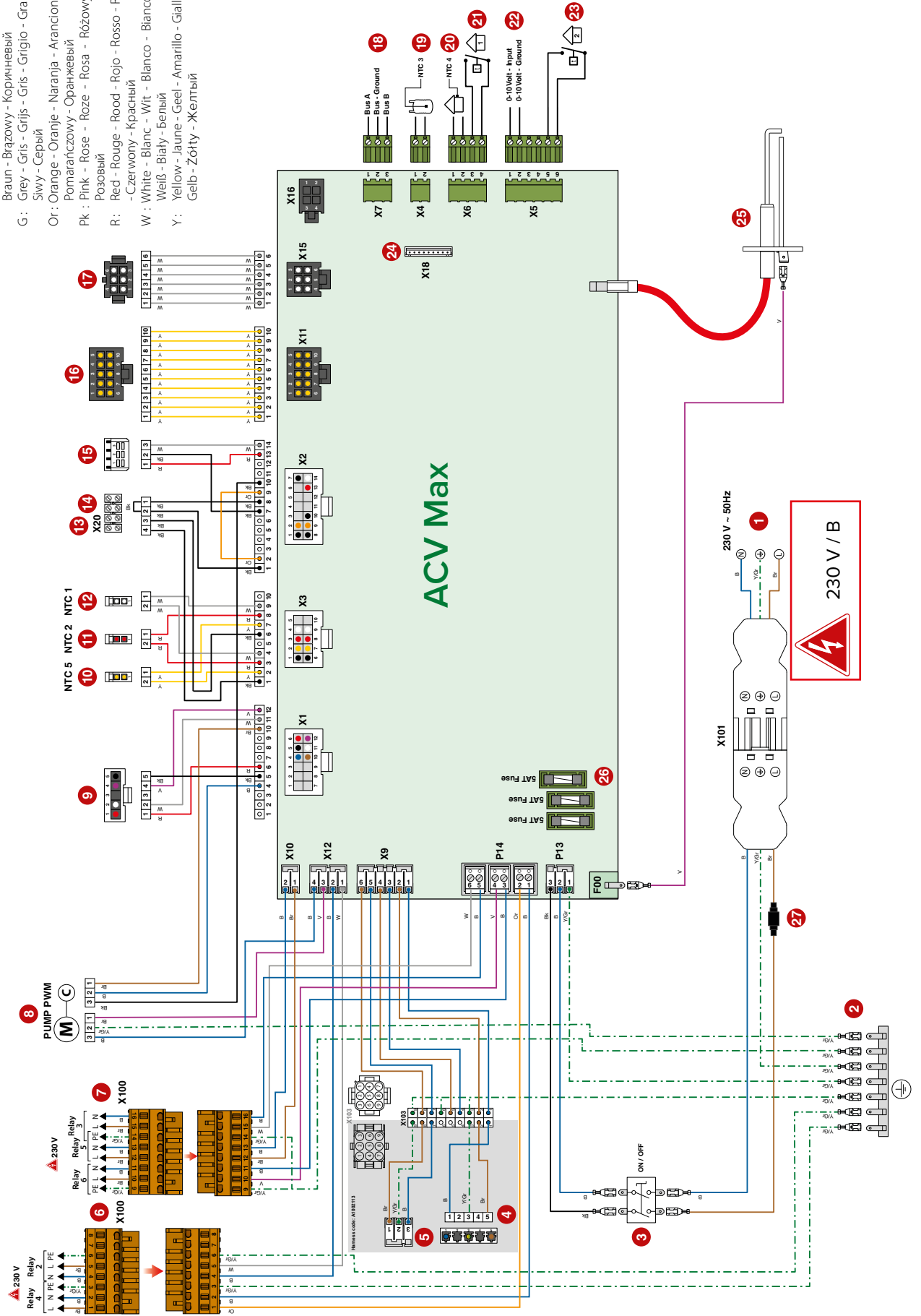


# WaterMaster 25 (X) - 35 - 45 (X) - 60 - 70 - 85 - 120 Evo 2



# WATERMASTER® 25 - 35 - 45 Evo 2 WATERMASTER® 25 X - 45 X Evo 2

B : Blue - Bleu - Blauw - Azul - Blu - Blau  
- Niebieski - Голубой  
Bk : Black - Noir - Zwart - Negro - Nero -  
Schwarz - Czarny - Черный  
Br : Brown - Bruin - Bruin - Marron - Marrone -  
Braun - Brazowy - Коричневый  
G : Grey - Gris - Grijs - Gris - Grigio - Grau -  
Sivý - Серый  
Or : Orange - Oranje - Naranja - Arancione -  
Pomarańczowy - Оранжевый  
Pk : Pink - Rose - Roze - Rosa - Różowy -  
Розовый  
R : Red - Rouge - Rood - Rojo - Rosso - Rot  
- Czerwony - Красный  
W : White - Blanc - Wit - Blanco - Bianco -  
Weiß - Biały - Белый  
Y : Yellow - Jaune - Geel - Amarillo - Giallo -  
Gelb - Żółty - Желтый



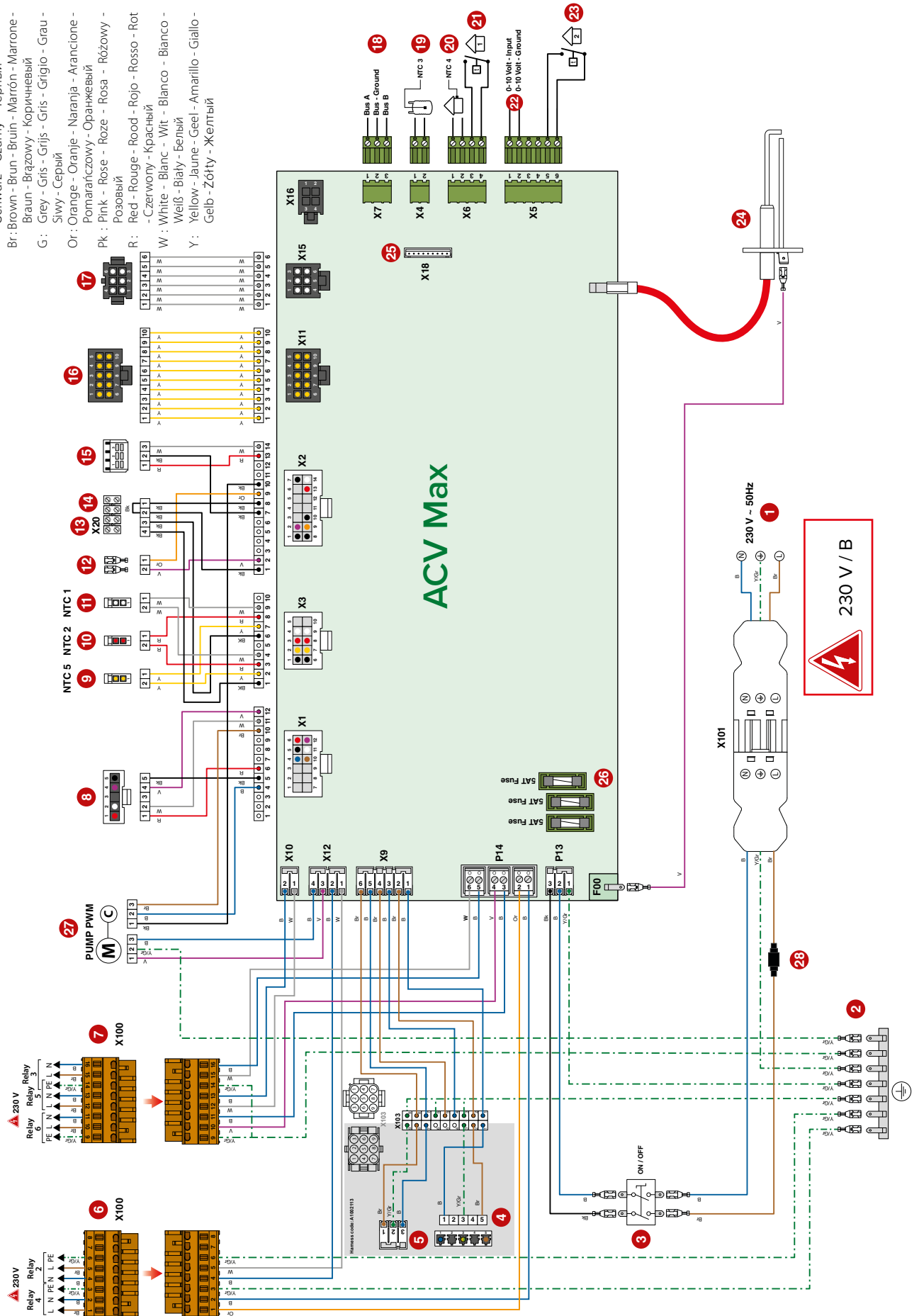
## WATERMASTER® 25 - 35 - 45 Evo 2

## WATERMASTER® 25 X - 45 X Evo 2

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | 230 V power supply plug - Fiche d'alimentation 230 V - Voedingsstekker 230 V - 230 V Anschlussschleife - Toma de alimentación 230 V - Alimentazione elettrica 230 V - Przewód 230V - Подключение питания 230 В                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2.  | Ground - Masse - Aarding - Erdung - Massa - Massa a terra - Uziemienie - Заземление                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 3.  | ON/OFF master switch - Interrupteur principal marche/arrêt - Hoofdschakelaar Aan/Uit - AN/AUS Hauptschalter - Interruttore generale on/off - Wyłącznik kotła - Главный выключатель ВКЛ/ВЫКЛ                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 4.  | Gas valve rectified - Vanne gaz rectifiée - Gasklep - Gelijkgericht - Gasventil gleichrichtet - Válvula de gas rectificada - Valvola gas - Zawór gazowy (VrAC) - Штекер газового клапана                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 5.  | Burner power supply - Alimentation brûleur - Toevoer brander - Stromversorgung des Brenners - Alimentazione del bruciatore - Zasilanie palnika - Электропитание горелки                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 6.  | Terminal block for optional items - Bornier pour éléments optionnels - Klemmen voor optionele elementen - Klemmenblock für Zubehör - Regleta de conexión para elementos externos per accessori opzionali - Lista zaciskowa dla opcjonalnych elementów - Клеммная колодка для дополнительных элементов                                                                                                                                                                                                                                                                                                                                  |
| 7.  | Terminal block for optional items: - Bornier pour éléments optionnels - Klemmen voor optionele elementen - Klemmblock für optionales Zubehör - Regleta opcional de conexión para elementos externos opcionales - Morsetti per accessori opzionali - Lista zaciskowa dla opcjonalnych elementów - Клеммный блок для дополнительных элементов (опция)                                                                                                                                                                                                                                                                                    |
| 8.  | Modulating pump PWM - PWM rompre modulante - PWM modulerende pomp - PWM modulierende Pumpe - Bomba de modulación PWM - Pompa modulante PWM - Pompa mieszająca modułowana PWM - Насос с модуляцией мощности (PWM)                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 9.  | Burner PWM plug - Fiche PWM du brûleur - PWM-stekker brander - Brenner PWM Stecker - Scheda PWM quemador - Wytyczka palnika z modulacją - Линия управления вентилятором горелки                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 10. | NTC5 flue gas temperature sensor - Sonde de température fumée - NTC5 - NTC5-rookgasttemperatuurvoeler - NTC5 - Abgas-Temperaturfühler - Sonda de temperatura de humos NTC5 - Sonda temperatura fumi NTC5 - Czujnik temperatury spalin NTC5 - Темп. датчик NTC5 (уходящих газов)                                                                                                                                                                                                                                                                                                                                                        |
| 11. | NTC2 return sensor - Sonde température retour - NTC2 - Rücklauf-Temperaturfühler - Sonda de retorno NTC2 - Sonda ritorno NTC2 - Czujnik powrotu NTC2 - Темп. датчик NTC2 (обратная линия отопления)                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 12. | NTC1 supply sensor - Sonde température départ - NTC1 - NTC1-aanvoervoeler - Sonda de impulsión NTC1 - Sonda mandata NTC1 - Czujnik zasilania NTC1 - Темп. датчик NTC1 (подающая линия отопления)                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 13. | NTC - Low temperature circuit - NTC - circuit basse température - NTC - Nieder temperaturkreis - NTC - Niedertemperaturkreis - Sonda NTC circuito miscelato bassa temperatura (opzionale) - Czujnik NTC obiegu niskotemperaturowego - Темп. датчик NTC (низкотемпературный контур)                                                                                                                                                                                                                                                                                                                                                     |
| 14. | High limit switch - Thermostat de sécurité - Veiligheidsthermostaat - Maximalthermostat - Termostato de seguridad - Termostato di sicurezza - Obwód dodatkowego ogranicznika temperatury (fabrycznie montek) - Защитный термостат редельной температуры                                                                                                                                                                                                                                                                                                                                                                                |
| 15. | Low water pressure sensor - Pressostat manque d'eau - Waterdruksensor - Wassermangelschalter - Presostato de falta de agua - Trasduttore pressione circuito idraulico - Czujnik ciśnienia wody grzewczej - Датчик давления теплоносителя                                                                                                                                                                                                                                                                                                                                                                                               |
| 16. | PCB (Display) - PCB (Écran) - PCB (Display) - PCB (Pantalla) - Wyswietlacz - Подключение панели управления контроллера                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 17. | ACVMax programming plug - Fiche de programmation ACVMax - Programmeerstekker ACVMax - ACVMax-Programmieranschluss - Ficha de programación ACVMAX - Connettore per programmazione scheda ACVMAX - Gniazdo programowania sterownika ACVMAX - Разъем программирования ACVMAX                                                                                                                                                                                                                                                                                                                                                              |
| 18. | A & B Modbus (option) - Modbus A & B (option) - A & B Modbus (optionale) - A & B Modbus (optional) - A & B Modbus (opcional) - A & B Modbus (opzionale) - Podłączenie magistrali Modbus (opcja) - Шина данных "Modbus" конт. А, В (опция)                                                                                                                                                                                                                                                                                                                                                                                              |
| 19. | NTC3 DHW sensor - Sonde sanitaire - NTC3 - NTC3-warmwatervoeler SWW - NTC3 - Brauchwasserfühler - Sonda de ACS NTC3 - Sonda acqua sanitaria NTC3 - Czujnik c.w. NTC3 - Темп. датчик NTC3 (ГВС)                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 20. | NTC4 outdoor temperature sensor (option) - Sonde de température extérieure - NTC4 (option) - NTC4-buitenvoeler (optie) - NTC4 - Außenfühler (optional) - Sonda de temperatura exterior NTC4 (opcional) - Sonda temperatura esterna NTC4 (opzionale) - Czujnik temperatury zewnętrznej NTC4 (opcja) - Темп. датчик NTC4 (уличная температура) (опция)                                                                                                                                                                                                                                                                                   |
| 21. | Room thermostat 1 (option) - Thermostat d'ambiance 1 (option) - Kamerthermostaat 1 (optie) - Raumthermostat 1 (optional) - Termostato de ambiente 1 (opzionale) - Termostato pokojowy obiegu 1 (opcja) - Комнатный термостат 1 (опция)                                                                                                                                                                                                                                                                                                                                                                                                 |
| 22. | 0-10 Volt (option) - 0-10 Volt (option) - 0-10 Volt (optie) - 0-10 Volt (optional) - 0-10 V (opcional) - 0-10 Volt (opzionale) - 0-10 Volt (opcja) - Сигнал 0-10 В (опция)                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 23. | Room thermostat 2 (option) - Thermostat d'ambiance 2 (option) - Kamerthermostaat 2 (optie) - Raumthermostat 2 (optional) - Termostato de ambiente 2 (opzionale) - Termostato pokojowy obiegu 2 (opcja) - Комнатный термостат 2 (опция)                                                                                                                                                                                                                                                                                                                                                                                                 |
| 24. | Connection for interface control unit - Raccordement pour interface Control Unit - Connector voor EBV interface (control unit) - Anschluss für Regelleinheit Control Unit - Conexión para Interface Control Unit - Inneso per scheda interfaccia (Control Unit) - Gniazdo dla modulu komunikacyjnego RMCi (do współpracy z regulatorem Room Unit/Control Unit) - Подключение интерфейсного модуля для Control Unit                                                                                                                                                                                                                     |
| 25. | Ignition and ionization cable - Câble d'allumage et d'ionisation - Ontstekings- en ionisatiekabel - Ionisations- und Zündkabel - Cable de encendido y de ionización - Cavo accensione e ionizzazione - Przywód zapłonowo - jonizacyjny - Подключение интерфейсного модуля для Control Unit (опция)                                                                                                                                                                                                                                                                                                                                     |
| 26. | 5AT slow-blow fuse (3x) for internal and optional circuits* - Fusible 5AT temporisé (3x) pour circuits internes et optionnels* - 5AT Traag zekering (3x) voor interne en optionele circuits - Trage 5 Ampere-Sicherung 3x für interne und optionale Schaltungen* - Fusibile técnico de 5AT (3x) para protección de circuitos internos y circuitos opcionales* - Fusibili 5AT ritardati (3 pezzi) per circuiti interni e opzionali* - 5AT bezpiecznik topikowy (3x) dla obiegów wewnętrznych i opcjonalnych* - Плавкие предохранители 5A (3x) для защиты внутренних электрических цепей и цепей питания внешней электрической нагрузки* |
| 27. | 10A fuse, 250V, Dim: 5x20 mm - Fusible 10A, 250V, Dim: 5x20 mm - Zekering 10A, 250V, 5x20 mm - 10 Ampere-Sicherung, 250 V, 5x20 mm - Fusible 10A, 250 V, dim. 5x20 mm - 10A bezpiecznik topikowy, 250 V, 5x20 mm - Плавкие предохранители 10A, 250В, 5x20 мм                                                                                                                                                                                                                                                                                                                                                                           |

# WATERMASTER® 60 - 70 (X) - 85 Evo 2

B : Blue - Bleu - Blauw - Azul - Blu - Blau  
 - Niebieski - Голубой  
 Bk : Black - Noir - Zwart - Negro - Nero -  
 Schwarz - Czarny - Черный  
 Br : Brown - Brun - Bruin - Marrón - Marrone -  
 Braun - Brązowy - Коричневый  
 G : Grey - Gris - Grijs - Gris - Grigio - Grau -  
 Sivvy - Серый  
 Or : Orange - Oranje - Naranja - Arancione -  
 Pomarańczowy - Оранжевый  
 Pk : Pink - Rose - Roze - Rosa - Różowy -  
 Розовый  
 R : Red - Rouge - Rood - Rojo - Rosso - Rot  
 - Czerwony - Красный  
 W : White - Blanc - Wit - Bianco - Bianco -  
 Weiß - Biały - Белый  
 Y : Yellow - Jaune - Geel - Amarillo - Giallo -  
 Gelb - Żółty - Желтый

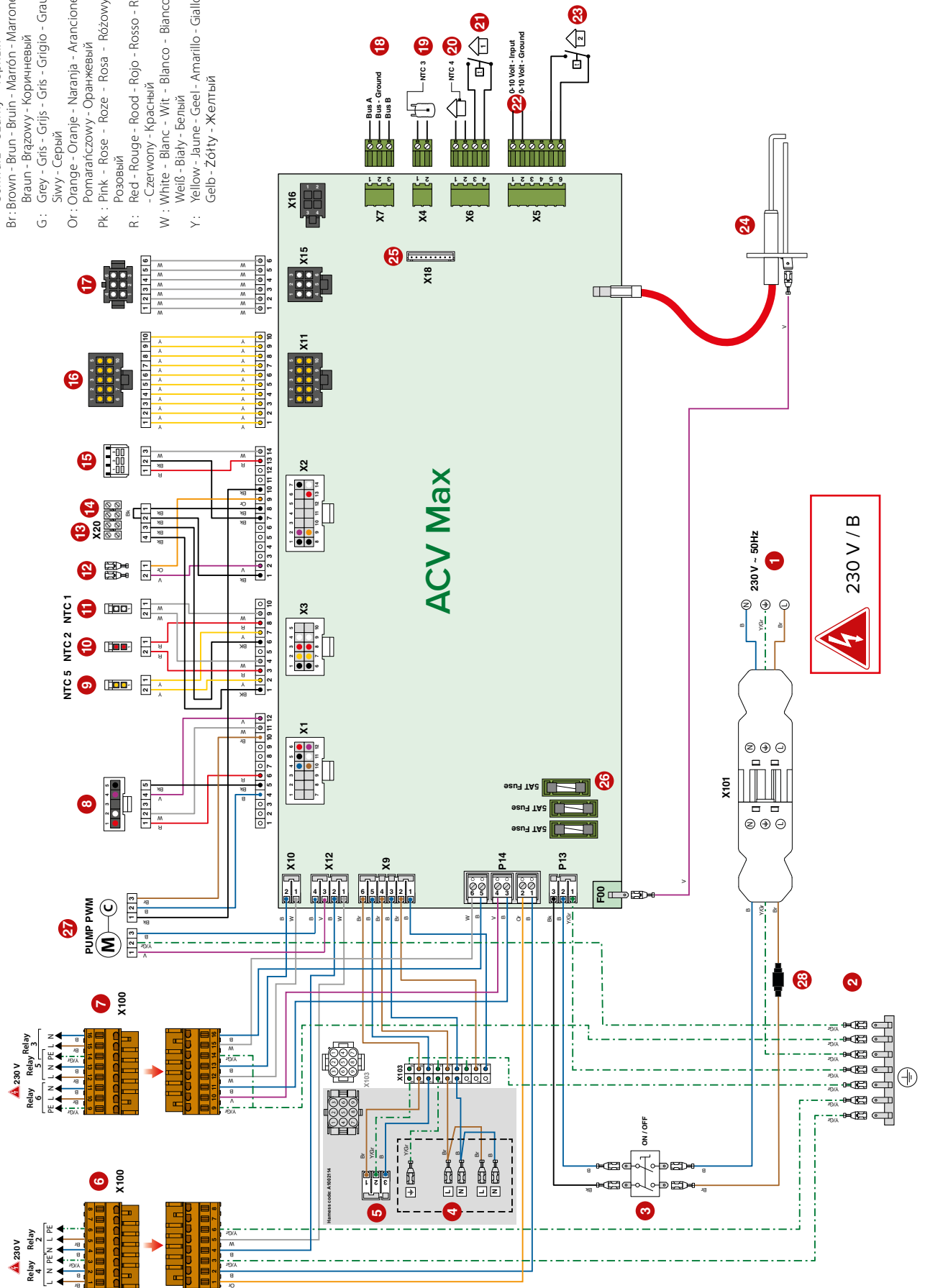


## WATERMASTER® 60 - 70 (X) - 85 Evo 2

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | 230 V power supply plug - Fiche d'alimentation 230 V - Voedingsstekker 230 V - 230 V Anschlussschleife - Toma de alimentación 230 V - Alimentazione elettrica 230 V - Przewód 230V - Подключение питания 230 В                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2.  | Ground - Masse - Aarding - Erdung - Massa - Messa a terra - Uziemienie - Заземление                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3.  | ON/OFF master switch - Interrupteur principal marche/arrêt - Hoofdschakelaar Aan/Uit - AN/AUS Hauptschalter - Interruttore generale on/off - Wyłącznik kotła - Главный выключатель ВКЛ/ВЫКЛ                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 4.  | Gas valve rectified - Vanne gaz rectifiée - Gasklep - Gelijkgerecht - Gasventil gleichrichtet - Válvula de gas rectificada - Zawór gazowy (VrAC) - Штекер газового клапана                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 5.  | Burner power supply - Alimentation brûleur - Toevoer brander - Stromversorgung des Brenners - Alimentación del quemador - Zasilanie palnika - Электропитание горелки                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 6.  | Terminal block for optional items - Bornier pour éléments optionnels - Klemmen voor optionele elementen - Klemmenblock für Zubehör - Regleta de conexión para elementos externos - Morsettiera per accessori opzionali - Lista zaciskowa dla opcjonalnych elementów - Клеммная колодка для дополнительных элементов - Morsettiera per accessori opzionali - Lista zaciskowa dla opcjonalnych elementów - Клеммный блок для дополнительных элементов (опция)                                                                                                                                                                         |
| 7.  | Terminal block for optional items: - Bornier pour éléments optionnels - Klemmen voor optionele elementen - Klemmblock für optionales Zubehör - Regleta opcional de conexión para elementos externos opcionales - Morsettiera per accessori opzionali - Lista zaciskowa dla opcjonalnych elementów - Клеммный блок для дополнительных элементов (опция)                                                                                                                                                                                                                                                                              |
| 8.  | Burner PWM plug - Fiche PWM du brûleur - PWM-stekker brander - Brenner PWM Stecker - Scheda PWM quemador - Wtyczka palnika z modulacją - Линия управления вентилятором горелки                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 9.  | NTC5 flue gas temperature sensor - Sonde de température fumée - NTC5 - rookgas temperatuurovoeler - NTC5 - Abgas-Temperaturfühler - Sonda de temperatura de humos NTC5 - Sonda temperatura fumi NTC5 - Czujnik temperatury spalin NTC5 - Темп. датчик NTC5 (ухлодящих газів)                                                                                                                                                                                                                                                                                                                                                        |
| 10. | NTC2 return sensor - Sonde température retour - NTC2 - NTC2-retourtemperatuurovoeler - NTC2 - Rücklauf-Temperaturfühler - Sonda de retorno NTC2 - Sonda ritorno NTC2 - Czujnik powrotu NTC2 - Темп. датчик NTC2 (обратная линия отопления)                                                                                                                                                                                                                                                                                                                                                                                          |
| 11. | NTC1 supply sensor - Sonde température départ - NTC1 - NTC1-aanvoervoeler - NTC1 - Vorlauf-Temperaturfühler - Sonda de impulsión NTC1 - Sonda mandata NTC1 - Czujnik zasilania NTC1 - Темп. датчик NTC1 (подающая линия отопления)                                                                                                                                                                                                                                                                                                                                                                                                  |
| 12. | Gas pressure switch - Pressostat gaz - Drukschakelaar gas - Gasdruckwächter - Presostato de gas - Pressostato cislénia gazu - Реле давления газа                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 13. | NTC - Low temperature circuit - NTC - circuit basse température - NTC lage temperatuur - NTC - Niedertemperaturkreis - Sonda NTC circuito miscelato bassa temperatura (opzionale) - Czujnik NTC obiegu niskotemperaturowego - Темп. датчик NTC (низкотемпературный контур)                                                                                                                                                                                                                                                                                                                                                          |
| 14. | High limit switch - Thermostat de sécurité - Veiligheidsthermostaat - Maximalthermostat - Termostato de seguridad - Termostato di sicurezza - Obwód dodatkowego ogranicznika temperatury (fabrycznie montek) - Защитный термостат редельной температуры                                                                                                                                                                                                                                                                                                                                                                             |
| 15. | Low water pressure sensor - Pressostat manque d'eau - Waterdruksensor - Wassermangelschalter - Presostato de falta de agua - Trasduttore pressione circuito idraulico - Czujnik ciśnienia wody grzewczej - Датчик давления теплоносителя                                                                                                                                                                                                                                                                                                                                                                                            |
| 16. | PCB (Display) - PCB (Écran) - PCB (Display) - PCB (Pantalla) - PCB (Display) - Wyswietlacz - Подключение панели управления контроллера                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 17. | ACVMax programming plug - Fiche de programmation ACVMax - Programmeerstekker ACVMax - ACVMax-Programmieranschluss - Ficha de programación ACVMAX - Connettore per programmazione scheda ACVMAX - Gniazdo programowania sterownika ACVMAX - Разъем программирования ACVMAX                                                                                                                                                                                                                                                                                                                                                           |
| 18. | A & B Modbus (option) - Modbus A & B (option) - A & B Modbus (optie) - A & B Modbus (optional) - A & B Modbus (opzionale) - A & B Modbus (opcja) - Шина данных "Modbus" конт. А, В (опция)                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 19. | NTC3 DHW sensor - Sonde sanitaire - NTC3 - NTC3-warmwatervoeler SWW - NTC3 - Brauchwasserfühler - Sonda de ACS NTC3 - Sonda acqua sanitaria NTC3 - Czujnik c.w. NTC3 - Темп. датчик NTC3 (ГВС)                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 20. | NTC4 outdoor temperature sensor (option) - Sonde de température extérieure - NTC4 (option) - NTC4-buitenvoeler (optie) - NTC4 - Außenfühler (optional) - Sonda de temperatura exterior NTC4 (opcional) - Sonda da temperatura esterna NTC4 (opzionale) - Czujnik temperatury zewnętrznej NTC4 (opcja) - Темп. датчик NTC4 (уличная температура) (опция)                                                                                                                                                                                                                                                                             |
| 21. | Room thermostat 1 (option) - Thermostat d'ambiance 1 (option) - Kamethermostaat 1 (optie) - Raumthermostat 1 (optional) - Termostato de ambiente 1 (opzionale) - Termostato pokojowy obiegu 1 (opcja) - Комнатный термостат 1 (опция)                                                                                                                                                                                                                                                                                                                                                                                               |
| 22. | 0-10 Volt (option) - 0-10 Volt (option) - 0-10 Volt (optie) - 0-10 Volt (optional) - 0-10 Volt (opcja) - Сигнал 0-10 В (опция)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 23. | Room thermostat 2 (option) - Thermostat d'ambiance 2 (option) - Kamethermostaat 2 (optie) - Raumthermostat 2 (optional) - Termostato de ambiente 2 (opzionale) - Termostato pokojowy obiegu 2 (opcja) - Комнатный термостат 2 (опция)                                                                                                                                                                                                                                                                                                                                                                                               |
| 24. | Connection for interface control unit - Raccordement pour Interface Control Unit - Connector voor EBV interface (control unit) - Anschluss für Regleinheit Control Unit - Conexión para Interface Control Unit - In-nesto per scheda interfaccia (Control Unit) - Gniazdo dla modulu komunikacyjnego RMCi (do współpracy z regulatorem Room Unit/Control Unit) - Подключение интерфейсного модуля для Control Unit                                                                                                                                                                                                                  |
| 25. | Ignition and ionization cable - Câble d'allumage et d'ionisation - Ontstekings- en ionisatiekabel - Ionisations- und Zündkabel - Cable de encendido y de ionización - Cavo accensione e ionizzazione - Przewód zapłonowo - jonizacyjny - Подключение интерфейсного модуля для Control Unit (опция)                                                                                                                                                                                                                                                                                                                                  |
| 26. | 5AT slow-blow fuse for internal and optional circuits* - Fusible 5AT temporisé (3x) pour circuits internes et optionnels* - 5AT Traag zekering (3x) voor interne en optionele circuits - Träge 5 Ampere-Sicherung 3x für interne und optionale Schaltungen* - Fusibile térmico de 5AT (3x) para protección de circuitos internos u circuitos opcionales* - Fusibili 5AT ritardati (3 pezzi) per circuiti interni e opzionali* - 5AT bezpiecznik topikowy (3x) dla obiegów wewnętrznych i opcjonalnych* - Плавление предохранители 5A (3x) для защиты внутренних электрических цепей и цепей питания внешней электрической нагрузки* |
| 27. | Modulating pump PWM - PWM pompe modulante - PWM modulerende pomp - PWM modulerende Pumpe - Bomba de modulación PWM - Pompa mieszająca modulowana PWM - Насос с модулирующей мощностью (PWM)                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 28. | 10A fuse, 250V, Dim: 5x20 mm - Fusible 10A, 250V, Dim: 5x20 mm - 10 Ampere-Sicherung, 250 V, 5x20 mm - Fusibile 10A, 250 V, dim. 5x20 mm - 10A bezpiecznik topikowy, 250 V, 5x20 mm - Плавление предохранители 10A, 250В, 5x20 мм                                                                                                                                                                                                                                                                                                                                                                                                   |

# WATERMASTER® 120 Evo 2

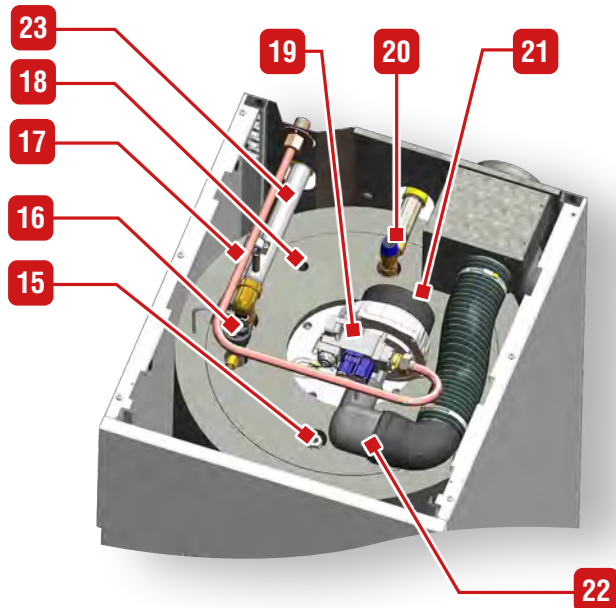
B: Blue - Bleu - Blauw - Azul - Blu - Blau  
- Niebieski - Tонгобой  
Bk: Black - Noir - Zwart - Negro - Nero -  
Schwarz - Czarny - Черный  
Br: Brown - Bruin - Bruin - Marrón - Marrone -  
Braun - Brazowy - Коричневый  
G: Grey - Gris - Grijs - Gris - Grigio - Grau -  
Sivý - Серый  
Or: Orange - Oranje - Naranja - Arancione -  
Pomarańczowy - Оранжевый  
Pk: Pink - Rose - Roze - Rosa - Różowy -  
Розовый  
R: Red - Rouge - Rood - Rojo - Rosso - Rot  
- Czerwony - Красный  
W: White - Blanc - Wit - Blanco - Bianco -  
Weiß - Белый  
Y: Yellow - Jaune - Geel - Amarillo - Giallo -  
Gelb - Żółty - Желтый



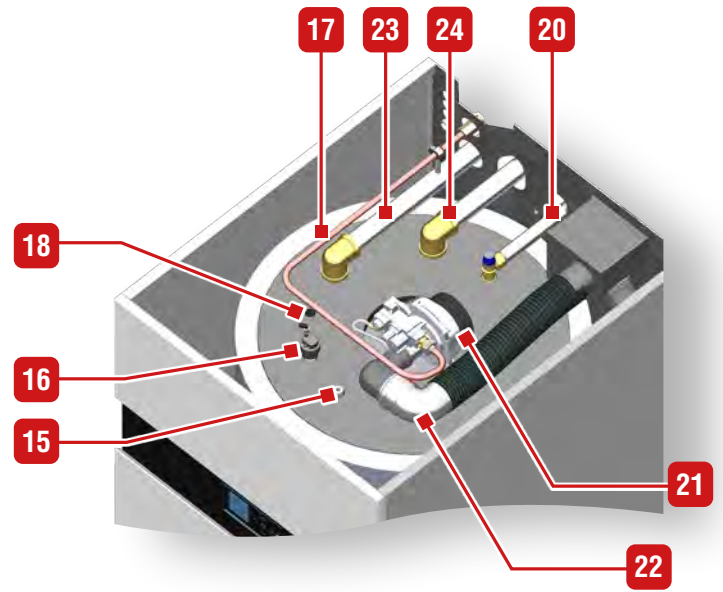
## WATERMASTER® 120 Evo 2

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | 230 V power supply plug - Fiche d'alimentation 230 V - 230 V Anschlussklemme - Toma de alimentación 230 V - Alimentazione elettrica 230 V - Przewód 230V - Подключение питания 230 В                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2.  | Ground - Masse - Aarding - Erdung - Masa - Messa a terra - Uziemienie - Заземление                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3.  | ON/OFF master switch - Interrupteur principal marche/arrêt - Hoofdschakelaar Aan/Uit - AN/AUS Hauptschalter - Interruttore generale on/off - Wyłącznik kotła - Главный выключатель ВКЛ/ВЫКЛ                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 4.  | Gas valve rectified - Vanne gaz rectifiée - Gasventil gleichrichtig - Válvula de gas rectificada - Zawór gazowy (VrAC) - Штекер газового клапана                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 5.  | Burner power supply - Alimentation brûleur - Toevoer brander - Stromversorgung des Brenners - Alimentazione del bruciatore - Zasilanie palnika - Электропитание горелки                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 6.  | Terminal block for optional items - Bornier pour éléments optionnels - Klemmen voor optionele elementen - Klemmenblock für Zubehör - Regleta de conexión para elementos externos opcionales - Morsetti per accessori opzionali - Lista zaciskowa dla opcjonalnych elementów - Клеммная колодка для дополнительных элементов (опция)                                                                                                                                                                                                                                                                                                    |
| 7.  | Terminal block for optional items - Bornier pour éléments optionnels - Klemmen voor optionele elementen - Klemmenblock für Zubehör - Regleta de conexión para elementos externos opcionales - Morsetti per accessori opzionali - Lista zaciskowa dla opcjonalnych elementów - Клеммный блок для дополнительных элементов (опция)                                                                                                                                                                                                                                                                                                       |
| 8.  | Burner PWM plug - Fiche PWM du brûleur - PWM-stekker brander - Brenner PWM Stecker - Scheda PWM del bruciatore - Wtyczka palnika z modulacją - Линия управления вентилятором горелки                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 9.  | NTC5 flue gas temperature sensor - Sonde de température fumée - NTC5 - Abgas-Temperaturfühler - Sonda de temperatura de humos NTC5 - Sonda temperatura fumi NTC5 - Czujnik temperatury spalin NTC5 - Темп. датчик NTC5 (уходящих газов)                                                                                                                                                                                                                                                                                                                                                                                                |
| 10. | NTC2 return sensor - Sonde température retour - NTC2 - Rücklauf-Temperaturfühler - Sonda de retorno NTC2 - Sonda ritorno NTC2 - Темп. датчик NTC2 (обратная линия отопления)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 11. | NTC1 supply sensor - Sonde température départ - NTC1 - Vorlauf-Temperaturfühler - Sonda de impulsión NTC1 - Sonda mandata NTC1 - Czujnik zasilania NTC1 - Темп. датчик NTC1 (подающая линия отопления)                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 12. | Gas pressure switch - Pressostat gaz - Drukschakelaar gas - Gasdruckwächter - Presostato de gas - Pressostat ciśnienia gazu - Реле давления газа                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 13. | NTC - Low temperature circuit - NTC - circuit basse température - NTC lage temperatuur - NTC - Niedertemperaturkreis - Sonda NTC circuito miscelato bassa temperatura (opzionale) - Czujnik NTC obiegu niskotemperaturowego - Темп. датчик NTC (низкотемпературный контур)                                                                                                                                                                                                                                                                                                                                                             |
| 14. | High limit switch - Thermostat de sécurité - Veiligheidsthermostaat - Maximalthermostat - Termostato de seguridad - Termostato di sicurezza - Obwód dodatkowego ogranicznika temperatury (fabrycznie montek) - Защитный термостат редельной температуры                                                                                                                                                                                                                                                                                                                                                                                |
| 15. | Low water pressure sensor - Pressostat manque d'eau - Waterdruksensor - Wassermangelschalter - Presostato de falta de agua - Trasduttore pressione circuito idraulico - Czujnik ciśnienia wody grzewczej - Датчик давления теплоносителя                                                                                                                                                                                                                                                                                                                                                                                               |
| 16. | PCB (Display) - PCB (Écran) - PCB (Display) - PCB (Pantalla) - PCB (Display) - Wyświetlacz - Подключение панели управления контроллера                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 17. | ACVMax programming plug - Fiche de programmation ACVMax - Programmeerstekker ACVMax - ACVMax-Programmieranschluss - Ficha de programación ACVMAX - Connettore per programmazione scheda ACVMax - Gniazdo programowania sterownika ACVMAX - Разъем программирования ACVMAX                                                                                                                                                                                                                                                                                                                                                              |
| 18. | A & B Modbus (option) - Modbus A & B (option) - A & B Modbus (option) - A & B Modbus (optionale) - Podłączenie magistrali Modbus (opcja) - Шина данных "Modbus" конт. А, В (опция)                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 19. | NTC3 DHW sensor - Sonde sanitaire - NTC3 - Brauchwasserfühler - Sonda de ACS NTC3 - Sonda acqua sanitaria NTC3 - Czujnik c.w. NTC3 - Темп. датчик NTC3 (ГВС)                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 20. | NTC4 outdoor temperature sensor (option) - Sonde de température extérieure - NTC4 (option) - NTC4-buitenvoeler (optie) - Sonda de temperatura exterior NTC4 (opcional) - Sonda temperatura esterna NTC4 (opzionale) - Czujnik temperatury zewnętrznej NTC4 (opcja) - Темп. датчик NTC4 (уличная температура) (опция)                                                                                                                                                                                                                                                                                                                   |
| 21. | Room thermostat 1 (option) - Thermostat d'ambiance 1 (option) - Kamerthermostaat 1 (optie) - Raumthermostat 1 (optional) - Termostato de ambiente 1 (opzionale) - Termostato pokojowy obiegu 1 (opcja) - Комнатный термостат 1 (опция)                                                                                                                                                                                                                                                                                                                                                                                                 |
| 22. | 0-10 Volt (option) - 0-10 Volt (optie) - 0-10 Volt (optional) - 0-10 Volt (opzionale) - 0-10 Volt (opcja) - Сигнал 0-10 В (опция)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 23. | Room thermostat 2 (option) - Thermostat d'ambiance 2 (option) - Kamerthermostaat 2 (optie) - Raumthermostat 2 (optional) - Termostato de ambiente 2 (opzionale) - Termostato pokojowy obiegu 2 (opcja) - Комнатный термостат 2 (опция)                                                                                                                                                                                                                                                                                                                                                                                                 |
| 24. | Connection for interface control unit - Raccordement pour Interface Control Unit - Connector voor EBV interface (control unit) - Anschluss für Regelleinheit Control Unit - Conexión para Interface Control Unit - In- nesto per scheda interfaccia (Control Unit) - Gniazdo dla modułu komunikacyjnego RMCI (do współpracy z regulatorem Room Unit/Control Unit) - Подключение интерфейсного модуля для Control Unit                                                                                                                                                                                                                  |
| 25. | Ignition and ionization cable - Câble d'allumage et d'ionisation - Ontstekings- und Zündkabel - Cable de encendido y de ionización - Cavo accensione e ionizzazione - Przewód zapłonowy - jonizacyjny - Подключение интерфейсного модуля для Control Unit (опция)                                                                                                                                                                                                                                                                                                                                                                      |
| 26. | 5AT slow-blow fuse (3x) for internal and optional circuits* - Fusible 5AT temporisé (3x) pour circuits internes et optionnels* - 5AT Traag zekering (3x) voor interne en optionele circuits - Träge 5 Ampere-Sicherung 3x für interne und optionale Schaltungen* - Fusibile térmico de 5AT (3x) para protección de circuitos internos y circuitos opcionales* - Fusibili 5AT ritardati (3 pezzi) per circuiti interni e opzionali* - 5AT bezpiecznik topikowy (3x) dla obiegów wewnętrznych i opcjonalnych* - Плавкие предохранители 5А (3х) для защиты внутренних электрических цепей и цепей питания внешней электрических нагрузки* |
| 27. | Modulating pump PWM - PWM pompe modulante - PWM modulerende pomp - PWM modulierende Pumpe - Bomba de modulación PWM - Pompa modulante PWM - Pompa mieszająca modułowana PWM - Насос с модулирующей мощностью (PWM)                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 28. | 10A fuse, 250V, Dim: 5x20 mm - Fusible 10A, 250V, Dim: 5x20 mm - 10 Ampere-Sicherung, 250 V, 5x20 mm - Fusible 10A, 250 V, Dim: 5x20 mm - Fusibile 10A, 250 V, dim. 5x20 mm - 10A bezpiecznik topikowy, 250 V, 5x20 mm - Плавкие предохранители 10А, 250В, 5х20 мм                                                                                                                                                                                                                                                                                                                                                                     |

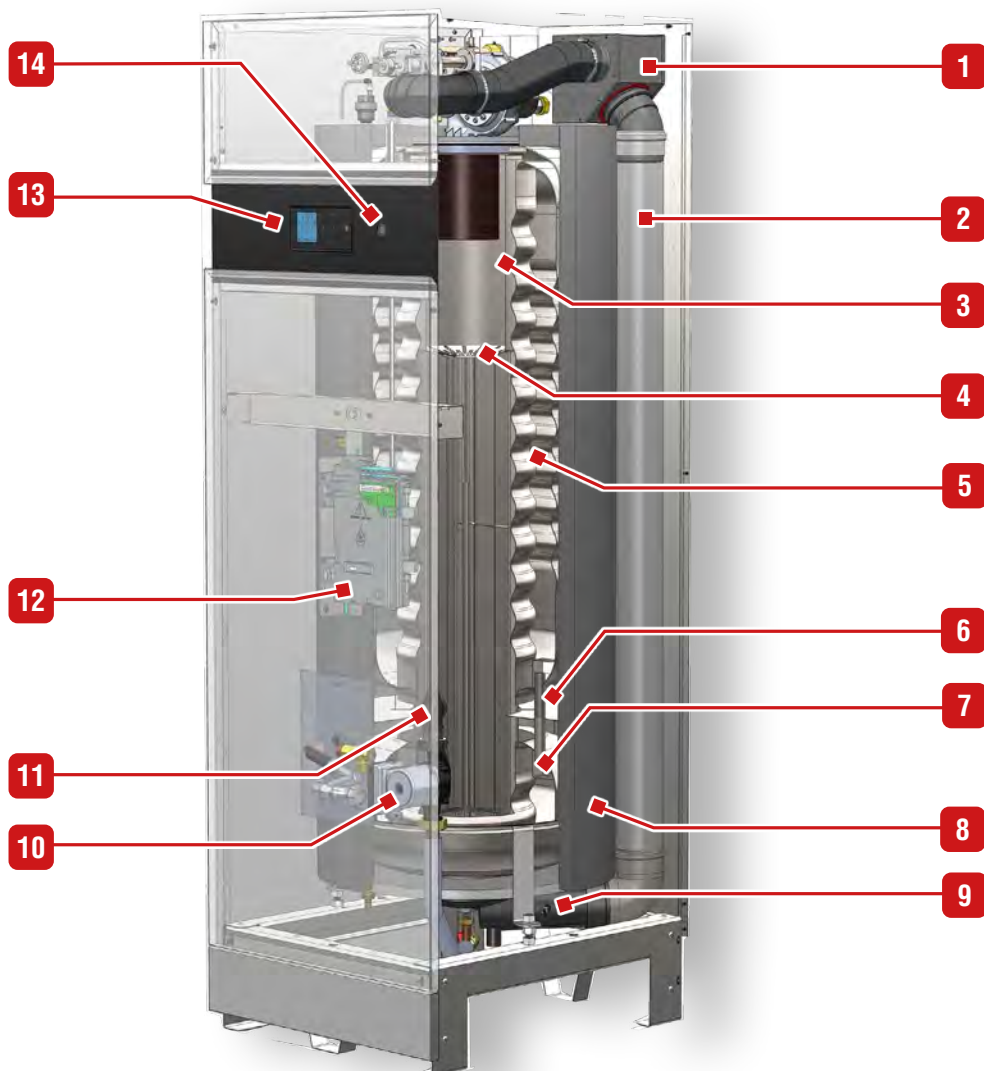
**WATERMASTER® 25 - 35 - 45 Evo 2**  
**WATERMASTER® 25 X - 45 X - 70 X Evo 2**



**WaterMaster® 25-35-45 Evo 2**

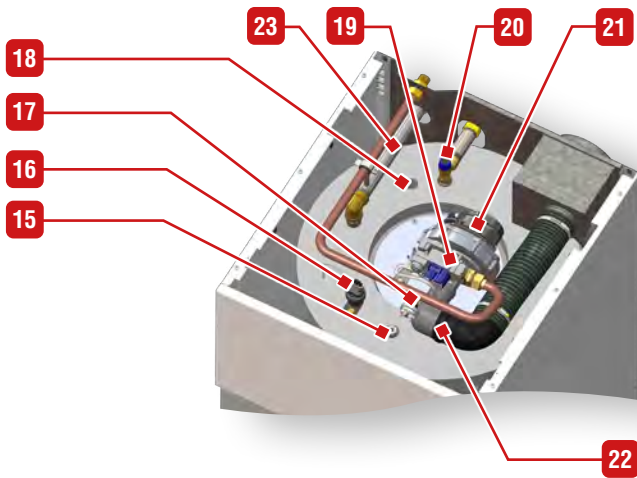


**WaterMaster® 25 X - 45 X - 70 X Evo 2**

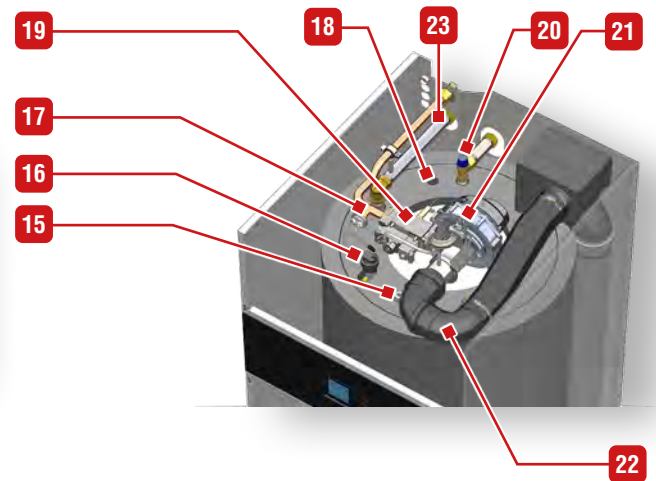


| EN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <ol style="list-style-type: none"> <li>Concentric flue gas/air inlet box</li> <li>Flue gas exhaust tube</li> <li>Combustion chamber</li> <li>Stainless steel heat exchanger</li> <li>Stainless steel "Tank-in-Tank" hot water production tank</li> <li>Primary circuit separation disc</li> <li>Indirect water pre-heater</li> <li>Insulation</li> <li>Condensate recovery dish + NTC5 sensor (flue gas)</li> <li>High efficiency circulator pump</li> <li>NTC2 sensor (primary return)</li> <li>Electrical panel (with spare fuses at the back)</li> <li>ACVMax Touch Control panel</li> <li>On-Off switch</li> <li>DHW tank dry well (Dip tube with temperature sensor)</li> <li>Automatic air vent</li> <li>Gas pipe</li> <li>NTC1 sensor (primary supply)</li> <li>Gas valve</li> <li>DHW safety valve / (T&amp;P relief valve - UK only)</li> <li>Modulating air/gas premix burner with fan</li> <li>Air inlet</li> <li>DHW outlet</li> <li>DHW recirculation tube</li> </ol>                                                                                                                                                                                                | <ol style="list-style-type: none"> <li>Collecteur concentrique d'évacuation des fumées/admission d'air</li> <li>Conduite de sortie des fumées</li> <li>Chambre de combustion</li> <li>Échangeur en acier inoxydable</li> <li>Ballon d'eau chaude sanitaire «tank-in-tank» en inox</li> <li>Disque de séparation du circuit primaire</li> <li>Préchauffeur indirect de l'eau</li> <li>Isolation</li> <li>Bac à condensats + sonde NTC5 (fumées)</li> <li>Circulateur haut rendement</li> <li>Sonde NTC2 (retour primaire)</li> <li>Tableau électrique (avec fusibles de rechange à l'arrière)</li> <li>Tableau de commande ACVMax Touch</li> <li>Bouton marche/arrêt</li> <li>Doigt de gant (plonge sanitaire avec sonde de température)</li> <li>Purgeur automatique</li> <li>Conduite de gaz</li> <li>Sonde NTC1 (départ primaire)</li> <li>Vanne gaz</li> <li>Soupape de sécurité sanitaire</li> <li>Brûleur modulant à prémélange air/gaz et ventilateur</li> <li>Entrée d'air</li> <li>Sortie sanitaire</li> <li>Circuit de recirculation sanitaire</li> </ol>                                                  | <ol style="list-style-type: none"> <li>Concentrische luchttoevoer/ rookgasafvoer</li> <li>Schouwpijp</li> <li>Verbrandingskamer</li> <li>Warmtewisselaar uit roestvrij staal</li> <li>Boiler "Tank in Tank" (binnentank) uit roestvrij staal</li> <li>Scheidingsschijf van de primaire kring</li> <li>Indirecte voorverwarmer van water</li> <li>Isolatie</li> <li>Opvangbak voor condenswater + NTC5-rookgasvoeler</li> <li>Hoogrendement voedingspomp</li> <li>NTC2-retourvoeler (primair)</li> <li>Elektriciteitsbord (met reserve-zekeringen aan de achterzijde).</li> <li>ACVMax Touch bedieningspaneel</li> <li>Aan/Uit schakelaar</li> <li>Voelerbuis warmwatertank (dompelbuis met temperatuursensor)</li> <li>Automatische ontluchter</li> <li>Gaspip</li> <li>NTC1-aanvoervoeler (primair)</li> <li>Gasklep</li> <li>Veiligheidsklep SWW</li> <li>Brander met voormenging van Gas/ Lucht</li> <li>Luchtinlaat</li> <li>Uitgang SWW</li> <li>Recirculatie SWW</li> </ol> | <ol style="list-style-type: none"> <li>Konzentrischer Abgasanschluss</li> <li>Abgasrohr</li> <li>Brennkammer</li> <li>Edelstahlwärmetauscher</li> <li>Edelstahl "Tank-in-Tank" Trinkwasserspeicher</li> <li>Heizkreis Trennblech</li> <li>Indirekter Vorwärmespeicher</li> <li>Isolierung</li> <li>Kondensatsammelbehälter + NTC5 - Abgas-Temperaturfühler</li> <li>Hocheffizienzumwälzpumpe</li> <li>NTC2 - Rücklauf-Temperaturfühler</li> <li>Elektrische Steuerung (mit Ersatzsicherungen an der Rückseite).</li> <li>ACVMax Touch Bedienfeld mit Display und Manometer</li> <li>Ein/Aus Schalter</li> <li>Tauchhülse für Trinkwasser mit NTC Fühler</li> <li>Automatischer Entlüfter (Primär)</li> <li>Gasdruckwächter</li> <li>NTC1 - Vorlauf-Temperaturfühler</li> <li>Gasventil</li> <li>WW-Sicherheitsventil</li> <li>Modulierender Luft/Gas Premix Brenner mit Gebläse</li> <li>Luftzufuhrrohr</li> <li>Warmwasserausgang</li> <li>Zirkulationskreislauf für Warmwasser</li> </ol>                                                                                                                                                                                                                                               |
| ES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <ol style="list-style-type: none"> <li>Caja de entrada concéntrica de salida de humos/entrada de aire</li> <li>Conducto de humos</li> <li>Cámara de combustión</li> <li>Intercambiador de acero inoxidable</li> <li>Acumulador de agua caliente sanitaria "Tank-in-Tank" de acero inoxidable</li> <li>Disco de separación del circuito primario</li> <li>Precalentador indirecto de agua</li> <li>Aislamiento</li> <li>Recipiente recuperador de condensados + Sonda de temperatura de humos NTC5</li> <li>Bomba de circulación de alta eficiencia</li> <li>Sonda de retorno NTC2 circuito primario</li> <li>Cuadro eléctrico (con fusibles de repuesto en la parte posterior)</li> <li>Panel de mandos ACVMax Touch con pantalla y manómetro</li> <li>Interruptor de puesta en marcha</li> <li>Vaina de la sonda del acumulador de ACS (con sonda de temperatura)</li> <li>Purgador de aire automático</li> <li>Tubo de gas</li> <li>Sonda de impulsión NTC1</li> <li>Válvula de gas</li> <li>Válvula de seguridad ACS</li> <li>Quemador modulante de premezcla de aire/gas</li> <li>Entrada de aire</li> <li>Salida de ACS</li> <li>Circuito de recirculación de ACS</li> </ol> | <ol style="list-style-type: none"> <li>Connessione concentrica ingresso aria/espulsione fumi</li> <li>Tubo camino</li> <li>Camera di combustione</li> <li>Scambiatore in acciaio inossidabile</li> <li>Serbatoio di produzione d'acqua calda "Tank-in- Tank" in acciaio inossidabile</li> <li>Disco di separazione del circuito primario</li> <li>Dispositivo di preriscaldamento indiretto dell'acqua</li> <li>Isolamento</li> <li>Serbatoio di recupero della condensa + Sonda temperatura fumi NTC5</li> <li>Circolatore ad elevata efficienza</li> <li>Sonda ritorno NTC2</li> <li>Scheda elettrica (con fusibili di ricambio)</li> <li>Pannello comandi ACVMax Touch con display e manometro</li> <li>Interruttore generale on/off</li> <li>Pozzetto acqua calda sanitaria (con sonda NTC)</li> <li>Spurgo automatico</li> <li>Tubo gas</li> <li>Sonda mandata NTC1</li> <li>Valvola gas</li> <li>Valvola di sicurezza ACS</li> <li>Bruciatore modulante a premiscelazione ARIA/GAS</li> <li>Tubo di aspirazione dell'aria</li> <li>Uscita acqua calda sanitaria</li> <li>Circuito di ricircolo ACS</li> </ol> | <ol style="list-style-type: none"> <li>Koncentryczny adapter kominowy</li> <li>Kanał spalinowy</li> <li>Komora spalania</li> <li>Wymiennik ciepła ze stali nierdzewnej</li> <li>Zasobnik ciepłej wody ze stali nierdzewnej</li> <li>Płyta separacyjna</li> <li>Wstępne podgrzewanie wody</li> <li>Izolacja</li> <li>Separator kondensatu + Czujnik temperatury spalin NTC5</li> <li>Pompa mieszająca wysokiej sprawności</li> <li>Czujnik powrotu NTC2</li> <li>Panel połączeń elektrycznych</li> <li>Panel sterowniczy ACVMax Touch</li> <li>Wyłącznik główny kotła</li> <li>Tuleja pomiarowa c.w. (z czujnikiem temperatury)</li> <li>Odpowietrznik automatyczny</li> <li>Rura gazowa</li> <li>Czujnik zasilania NTC1</li> <li>Zawór gazowy</li> <li>Zawór bezpieczeństwa c.w.</li> <li>Modulowany palnik gazowy premix z wentylatorem</li> <li>Wlot powietrza</li> <li>Wylot ciepłej wody</li> <li>Obieg recyrkulacji c.w.</li> </ol>                                          | <ol style="list-style-type: none"> <li>Терминал подключения коаксиального дымоотвода</li> <li>Патрубок отвода продуктов сгорания</li> <li>Камера сгорания</li> <li>Первичный теплообменник из нержавеющей стали</li> <li>Бойлер из нержавеющей стали "Бак в Бак" для произв-ва горячей воды</li> <li>Разделительная перегородка в отопительном контуре</li> <li>Бак предварительного нагрева санитарной воды</li> <li>Теплоизоляция</li> <li>Лоток для сбора конденсата + Темп. датчик NTC5 (уходящих газов)</li> <li>Высокоэффективный циркуляционный насос</li> <li>Темп. датчик NTC2 (обратная линия отопления)</li> <li>Блок автоматики управления котлом (с запасными предохранителями на задней стенке)</li> <li>Панель управления ACVMax Touch</li> <li>Главный выключатель ВКЛ/ ВЫКЛ</li> <li>Гильза для дачика температуры ГВС</li> <li>Автоматический воздухоотводчик (отопительный контур)</li> <li>Подключение газа</li> <li>Темп. датчик NTC1 (подающая линия отопления)</li> <li>Газовый клапан</li> <li>Предохранительный клапан ГВС</li> <li>Премиксная горелка модулирующей мощности</li> <li>Воздухозаборный патрубок</li> <li>Подача горячей санитарной воды в систему ГВС</li> <li>Контур рециркуляции ГВС</li> </ol> |

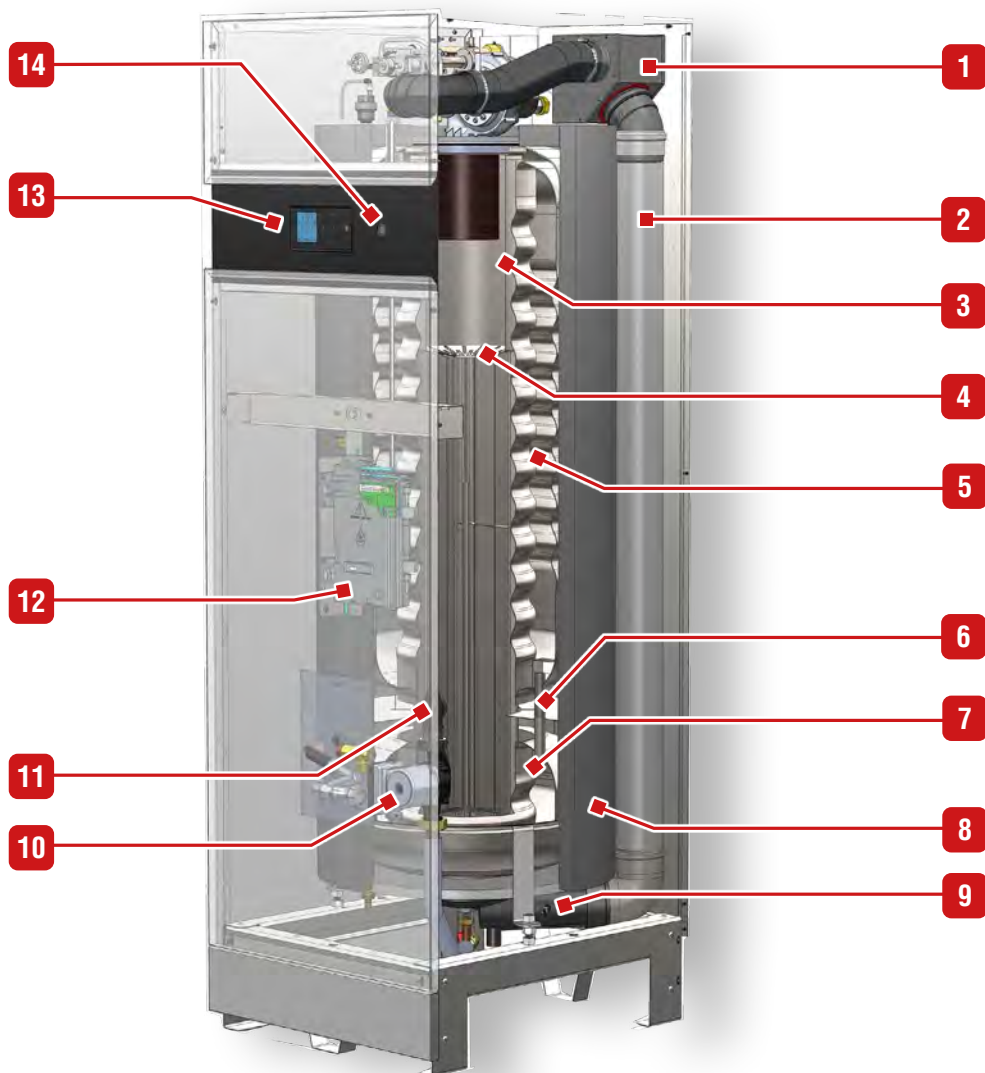
# WATERMASTER® 60 - 70 - 85 - 120 Evo 2



WaterMaster® 60 - 70 - 85 Evo 2

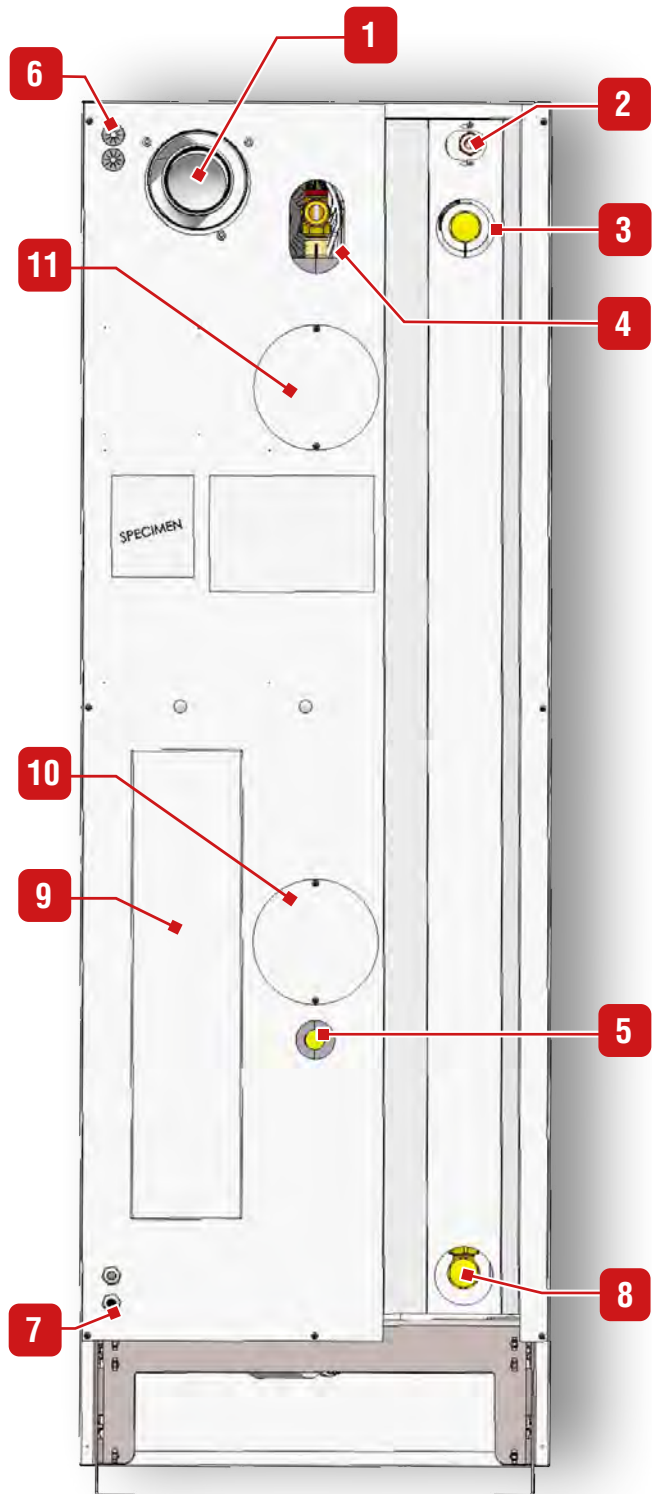


WaterMaster® 120 Evo 2

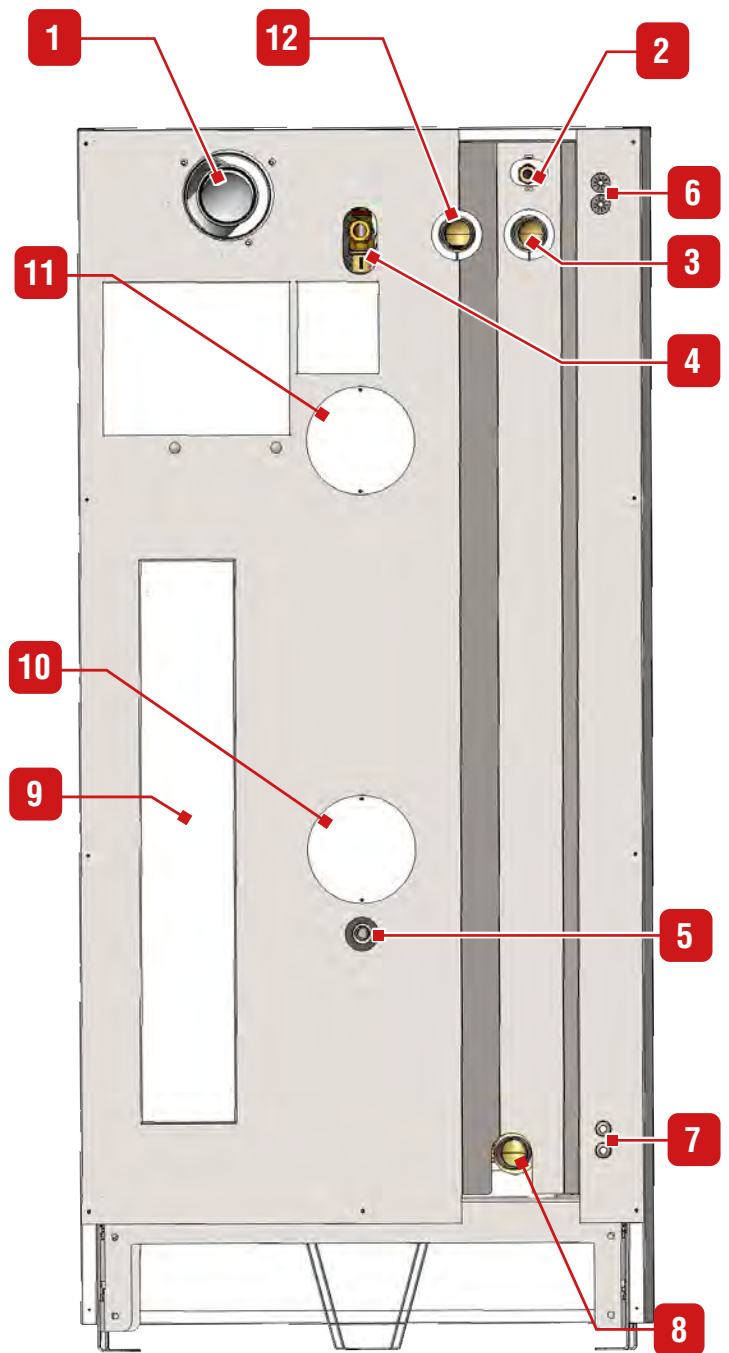


| EN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <ol style="list-style-type: none"> <li>1. Concentric flue gas/air inlet box</li> <li>2. Flue gas exhaust tube</li> <li>3. Combustion chamber</li> <li>4. Stainless steel heat exchanger</li> <li>5. Stainless steel "Tank-in-Tank" hot water production tank (primary + DHW)</li> <li>6. Primary circuit separation disc</li> <li>7. Indirect water pre-heater</li> <li>8. Insulation</li> <li>9. Condensate recovery dish + NTC5 sensor (flue gas)</li> <li>10. High efficiency circulator pump</li> <li>11. NTC2 sensor (Primary return)</li> <li>12. Electrical panel (with spare fuses at the back)</li> <li>13. ACVMax Touch Control panel</li> <li>14. On-Off switch</li> <li>15. DHW tank dry well (Dip tube with temperature sensor)</li> <li>16. Automatic air vent</li> <li>17. Gas pressure switch and gas pipe</li> <li>18. NTC1 sensor (Primary supply)</li> <li>19. Gas valve</li> <li>20. DHW safety valve / (T &amp; P relief valve - UK only)</li> <li>21. Modulating air/gas premix burner with fan</li> <li>22. Air inlet</li> <li>23. DHW outlet</li> </ol>                                                                                                                                | <ol style="list-style-type: none"> <li>1. Collecteur concentrique d'évacuation des fumées/admission d'air</li> <li>2. Conduite de sortie fdes umées</li> <li>3. Chambre de combustion</li> <li>4. Échangeur en acier inoxydable</li> <li>5. Ballon d'eau chaude sanitaire «tank-in-tank» en inox</li> <li>6. Disque de séparation du circuit primaire</li> <li>7. Préchauffeur indirect de l'eau</li> <li>8. Isolation</li> <li>9. Bac à condensats + sonde NTC5 (fumées) (non visibles)</li> <li>10. Circulateur haut rendement</li> <li>11. Sonde NTC2 (Retour primaire)</li> <li>12. Tableau électrique (avec fusibles de rechange à l'arrière)</li> <li>13. Tableau de commande ACVMax Touch</li> <li>14. Interrupteur marche-arrêt</li> <li>15. Doigt de gant (plonge sanitaire avec sonde de température)</li> <li>16. Purgeur automatique</li> <li>17. Pressostat gaz</li> <li>18. Sonde NTC1 (Départ primaire)</li> <li>19. Vanne gaz</li> <li>20. Soupape de sécurité sanitaire</li> <li>21. Brûleur modulant à prémélange air/gaz et ventilateur</li> <li>22. Entrée d'air</li> <li>23. Sortie sanitaire</li> </ol>                                    | <ol style="list-style-type: none"> <li>1. Concentrisch lucht toevoer / rookgas afvoer</li> <li>2. Schouwpijp</li> <li>3. Verbrandingskamer</li> <li>4. Warmtewisselaar uit roestvrij staal</li> <li>5. Boiler "Tank in Tank" (binnentank) uit roestvrij staal</li> <li>6. Scheidingsschijf van de primaire kring</li> <li>7. Indirecte voorverwarmer van water</li> <li>8. Isolatie</li> <li>9. Recuperatiebak voor condenswater + NTC5-rookgasvoeler</li> <li>10. Hoogrendement voedingpomp</li> <li>11. NTC2-retourvoeler (primair)</li> <li>12. Elektriteitsbord (met reserve zekeringen aan de achterzijde).</li> <li>13. ACVMax Touch bedieningspaneel</li> <li>14. Aan-Uit schakelaar</li> <li>15. Warmwater tank voelerbuis (dompelbuis met temperatuursensor)</li> <li>16. Automatische ontluucher</li> <li>17. Drukschakelaar gas</li> <li>18. NTC1-aanvoevoeler (primair)</li> <li>19. Gasklep</li> <li>20. Veiligheidsklep SWW</li> <li>21. Brander met voormenging van Gas/Lucht</li> <li>22. Lucht inlaat</li> <li>23. Uitgang SWW</li> </ol> | <ol style="list-style-type: none"> <li>1. Konzentrischer Abgasanschluss</li> <li>2. Abgasrohr</li> <li>3. Brennkammer</li> <li>4. Edelstahlwärmetauscher</li> <li>5. Edelstahl "Tank-in-Tank" Trinkwasserspeicher</li> <li>6. Heizkreis Trennblech</li> <li>7. Indirekter Vorwärmerspeicher</li> <li>8. Isolierung</li> <li>9. Kondensatsammelbehälter + NTC5 - Abgas-Temperaturfühler</li> <li>10. Hocheffizienzumwälzpumpe</li> <li>11. NTC2 - Rücklauf-Temperaturfühler</li> <li>12. Elektrische Steuerung (mit Ersatzsicherungen an der Rückseite).</li> <li>13. ACVMax Touch Bedienfeld mit Display und Manometer</li> <li>14. Ein/Aus Schalter</li> <li>15. Tauchhülse für Trinkwasser mit NTC Fühler</li> <li>16. Automatischer Entlüfter (Primärkreis)</li> <li>17. Gasdruckwächter</li> <li>18. NTC1 - Vorlauf-Temperaturfühler</li> <li>19. Gasventil</li> <li>20. WW-Sicherheitsventil</li> <li>21. Modulierender Luft/Gas Premix Brenner mit Gebläse</li> <li>22. Luftzufuhrrohr</li> <li>23. Warmwasserausgang</li> </ol>                                                                                                                                                                                                                                                                     |
| ES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <ol style="list-style-type: none"> <li>1. Caja de entrada concéntrica de salida de humos/entrada de aire</li> <li>2. Conducto de humos</li> <li>3. Cámara de combustión</li> <li>4. Intercambiador de acero inoxidable</li> <li>5. Acumulador de agua caliente sanitaria "Tank-in-Tank" de acero inoxidable</li> <li>6. Disco de separación del circuito primario</li> <li>7. Precalentador indirecto de agua</li> <li>8. Aislamiento</li> <li>9. Recipiente recuperador de condensados + Sonda de temperatura de humos NTC5</li> <li>10. Bomba de circulación de alta eficiencia</li> <li>11. Sonda de retorno NTC2</li> <li>12. Cuadro eléctrico (con fusibles de repuesto en la parte posterior)</li> <li>13. Panel de mandos ACVMax Touch con pantalla y manómetro</li> <li>14. Interruptor de puesta en marcha</li> <li>15. Vaina de la sonda del acumulador de ACS (con sonda de temperatura)</li> <li>16. Purgador de aire automático</li> <li>17. Presostato de gas</li> <li>18. Sonda de impulsión NTC1</li> <li>19. Válvula de gas</li> <li>20. Válvula de seguridad ACS</li> <li>21. Quemador modulante de premezcla de aire/gas</li> <li>22. Entrada de aire</li> <li>23. Salida de ACS</li> </ol> | <ol style="list-style-type: none"> <li>1. Connessione concentrica ingresso aria/espulsione fumi</li> <li>2. Tubo camino</li> <li>3. Camera di combustione</li> <li>4. Scambiatore in acciaio inossidabile</li> <li>5. Serbatoio di produzione d'acqua calda "Tank-in- Tank" in acciaio inossidabile</li> <li>6. Disco di separazione del circuito primario</li> <li>7. Dispositivo di preriscaldamento indiretto dell'acqua</li> <li>8. Isolamento</li> <li>9. Serbatoio di recupero della condensa + Sonda temperatura fumi NTC5</li> <li>10. Circolatore ad elevata efficienza</li> <li>11. Sonda ritorno NTC2</li> <li>12. Scheda ACVMax Touch (con fusibili di ricambio)</li> <li>13. Pannello comandi con display e manometro</li> <li>14. Interruttore generale on/off</li> <li>15. Pozzetto acqua calda sanitaria (con sonda NTC)</li> <li>16. Spurgo automatico</li> <li>17. Pressostato gas</li> <li>18. Sonda mandata NTC1</li> <li>19. Valvola gas</li> <li>20. Valvola di sicurezza ACS</li> <li>21. Bruciatore modulante a premiscelazione ARIA/GAS</li> <li>22. Tubo di aspirazione dell'aria</li> <li>23. Uscita acqua calda sanitaria</li> </ol> | <ol style="list-style-type: none"> <li>1. Koncentryczny adapter kominowy</li> <li>2. Kanał spalinowy</li> <li>3. Komora spalania</li> <li>4. Wymiennik ciepła ze stali nierdzewnej</li> <li>5. Zasobnik ciepłej wody ze stali nierdzewnej</li> <li>6. Płyta separacyjna</li> <li>7. Wstępne podgrzewanie wody</li> <li>8. Izolacja</li> <li>9. Separator kondensatu + Czujnik temperatury spalin NTC5</li> <li>10. Pompa mieszająca wysokiej sprawności</li> <li>11. Czujnik powrotu NTC2</li> <li>12. Panel połączeń elektrycznych</li> <li>13. Panel sterowniczy ACVMax Touch</li> <li>14. Wyłącznik główny kotła</li> <li>15. Tuleja pomiarowa c.w. (z czujnikiem temperatury)</li> <li>16. Odpowietrznik automatyczny</li> <li>17. Rura gazowa</li> <li>18. Czujnik zasilania NTC1</li> <li>19. Zawór gazowy</li> <li>20. Zawór bezpieczeństwa c.w.</li> <li>21. Modulowany palnik gazowy premix z wentylatorem</li> <li>22. Wlot powietrza</li> <li>23. Wylot ciepłej wody</li> </ol>                                                                 | <ol style="list-style-type: none"> <li>1. Терминал подключения коаксиального дымоотвода</li> <li>2. Патрубок отвода продуктов сгорания</li> <li>3. Камера сгорания</li> <li>4. Первичный теплообменник из нержавеющей стали</li> <li>5. Бойлер из нержавеющей стали "Бак в Бак" для произв-ва горячей воды</li> <li>6. Разделительная перегородка в отопительном контуре</li> <li>7. Бак предварительного нагрева санитарной воды</li> <li>8. Теплоизоляция</li> <li>9. Лоток для сбора конденсата + Темп. датчик NTC5 (ухаждающих газов) (Не показан)</li> <li>10. Высокоэффективный циркуляционный насос</li> <li>11. Темп. датчик NTC2 (обратная линия отопления)</li> <li>12. Блок автоматики управления котлом (с запасными предохранителями на задней стенке)</li> <li>13. Панель управления ACVMax Touch</li> <li>14. Главный выключатель ВКЛ/ВЫКЛ</li> <li>15. Гильза для датчика температуры ГВС</li> <li>16. Автоматический воздухоотводчик (отопительный контур)</li> <li>17. Реле давления газа</li> <li>18. Темп. датчик NTC1 (подающая линия отопления)</li> <li>19. Газовый клапан</li> <li>20. Предохранительный клапан ГВС</li> <li>21. Премиксная горелка модуляцией мощности</li> <li>22. Воздухозаборный патрубок</li> <li>23. Подача горячей санитарной воды в систему ГВС</li> </ol> |

WaterMaster 25-35-45-60-70-85-120 Evo 2



WaterMaster 25 X - 45 X - 70 X Evo 2



| EN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <ol style="list-style-type: none"> <li>1. Flue connection</li> <li>2. Gas connection [M]</li> <li>3. Domestic Hot Water outlet [M]</li> <li>4. Discharge for built-in DHW safety valve / (T &amp; P relief valve - UK only) outlet to be connected to the sewage system</li> <li>5. Connection for provided primary safety valve (to be installed) - also used for filling (optional hydraulic kit available).</li> <li>6. Grommets for electrical wires (low voltage control)</li> <li>7. Grommets for electrical wires (230 V)</li> <li>8. Domestic Hot Water circuit inlet [M]</li> <li>9. Front bottom panel (stored for transport)</li> <li>10. Primary inlet, with cover panel</li> <li>11. Primary outlet, with cover panel</li> <li>12. DHW recirculation connection</li> </ol> | <ol style="list-style-type: none"> <li>1. Raccord cheminée</li> <li>2. Raccord gaz [M]</li> <li>3. Sortie eau chaude sanitaire [M]</li> <li>4. Raccord de décharge de la soupape de sécurité sanitaire intégrée</li> <li>5. Raccord pour la soupape de sécurité du circuit primaire (à installer) - également utilisé pour le remplissage (kit hydraulique disponible en option).</li> <li>6. Passe-câbles pour fils électriques (basse tension)</li> <li>7. Passe-câbles pour fils électriques (230 V)</li> <li>8. Entrée circuit ECS [M]</li> <li>9. Panneau inférieur avant (position pour le transport)</li> <li>10. Entrée primaire, avec cache</li> <li>11. Sortie primaire, avec cache</li> <li>12. Raccord pour recirculation ECS</li> </ol> | <ol style="list-style-type: none"> <li>1. Schouw aansluiting</li> <li>2. Gasaansluiting [M]</li> <li>3. Uitgang sanitair warm water [M]</li> <li>4. Aansluiting veiligheidsklep SWW op de riolering</li> <li>5. Aansluiting voor primaire veiligheidsklep (te installeren) - ook voor vullen (optionele hydraulische kit verkrijgbaar).</li> <li>6. Doorvoeropeningen voor elektrische bedrading (lage spanning)</li> <li>7. Doorvoeropeningen voor elektrische bedrading (230 V)</li> <li>8. Ingang SWW [M]</li> <li>9. Onderste voorpaneel (positie voor transport)</li> <li>10. Primaire invoer, met afdekplaat</li> <li>11. Primaire afvoer, met afdekplaat</li> <li>12. Aansluiting recirculatie SWW</li> </ol> | <ol style="list-style-type: none"> <li>1. Abgasanschluss</li> <li>2. Gasanschluss [M]</li> <li>3. Warmwasserausgang [M]</li> <li>4. Anschluss für Sicherheitsventil Trinkwasser, welches an eine Kanalisation angeschlossen werden muss</li> <li>5. Anschluss für Sicherheitsventil Primärkreis - auch zum Befüllen (optionaler Hydraulik-Satz erhältlich).</li> <li>6. Kabeldurchführungen 24 Volt</li> <li>7. Kabeldurchführungen 230 Volt</li> <li>8. Kaltwassereingang [M]</li> <li>9. Untere Frontplatte (Position für den Transport)</li> <li>10. Primärkreiseinlass, mit Abdeckplatte</li> <li>11. Primärkreisausgang, mit Abdeckplatte</li> <li>12. Anschluss für Warmwasserzirkulation</li> </ol> |

| ES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <ol style="list-style-type: none"> <li>1. Conexión conducto de humos</li> <li>2. Conexión gas [M]</li> <li>3. Salida de Agua Caliente Sanitaria [M]</li> <li>4. Salida de la válvula de seguridad de ACS integrada se debe conectar a la red de alcantarillado</li> <li>5. Conexión para la válvula de seguridad del circuito primario (para instalar) - también para el llenado (kit hidráulico opcional disponible).</li> <li>6. Pasacables para cables eléctricos (control de baja tensión)</li> <li>7. Pasacables para cables eléctricos (230 V)</li> <li>8. Entrada del circuito de Agua Caliente Sanitaria [M]</li> <li>9. Panel frontal inferior (posición para el transporte)</li> <li>10. Entrada del circuito primario, con panel de cubierta</li> <li>11. Salida del circuito primario, con panel de cubierta</li> <li>12. Conexión de recirculación de ACS</li> </ol> | <ol style="list-style-type: none"> <li>1. Collegamento scarico fumi/ ingresso aria comburente</li> <li>2. Collegamento gas [M]</li> <li>3. Uscita Acqua Calda Sanitaria [M]</li> <li>4. Scarico valvola di sicurezza sanitaria interna (da convogliare ad uno scarico)</li> <li>5. Connessione per montaggio valvola di sicurezza fornita (da montare a cura dell'installatore) - anche per il riempimento (kit idraulico opzionale disponibile).</li> <li>6. Ingresso cavi elettrici (bassa tensione)</li> <li>7. Ingresso cavi elettrici (230 V)</li> <li>8. Ingresso circuito ACS [M]</li> <li>9. Pannello anteriore inferiore (posizione per il trasporto)</li> <li>10. Uscita circuito primario, con pannello di copertura</li> <li>11. Ingresso circuito primario, con pannello di copertura</li> <li>12. Collegamento per il ricircolo dell'ACS</li> </ol> | <ol style="list-style-type: none"> <li>1. Podłączenie do komina</li> <li>2. Podłączenie gazu [M]</li> <li>3. Wylot ciepłej wody [M]</li> <li>4. Wylot dla wbudowanego zaworu bezp. c.w.</li> <li>5. Podłączenie do zaworu bezpieczeństwa (do zainstalowania) - również do napełniania (opcjonalny zestaw hydrauliczny dostępny).</li> <li>6. Dławiki przewodów elektrycznych (sterowanie niskonapięciowe)</li> <li>7. Dławiki przewodów elektrycznych (230 V)</li> <li>8. Wlot zimnej wody [M]</li> <li>9. Panel przedni dolny (pozycja do transportu)</li> <li>10. Wlot obwodu pierwotnego z pokrywą</li> <li>11. Wypust obwodu pierwotnego z pokrywą</li> <li>12. Przyłącze recyrkulacji CWU</li> </ol> | <ol style="list-style-type: none"> <li>1. Подключение дымоотвода</li> <li>2. Подключение газа [M]</li> <li>3. Подача горячей санитарной воды в систему ГВС [M]</li> <li>4. Сливной патрубок от предохранительного клапана</li> <li>5. Подключение для поставляемого основного предохранительного клапана (устанавливается отдельно) — также для заполнения (дополнительный гидравлический комплект доступен по запросу).</li> <li>6. Кабельные вводы (низковольтные подключения)</li> <li>7. Кабельные вводы для электроподключений 230В</li> <li>8. Подача холодной санитарной воды [M]</li> <li>9. Нижняя передняя панель (положение для транспортировки)</li> <li>10. Вход первичного контура, с крышкой</li> <li>11. Выход первичного контура, с крышкой</li> <li>12. Подключение рециркуляции ГВС</li> </ol> |

## DECLARATION OF CONFORMITY TO STANDARDS

1/1

Product type: **Gas-Fired Storage Water Heater**

Name and address of manufacturer: **Groupe Atlantic Manufacturing Belgium  
Rue Henry Becquerel, 1  
7180 Seneffe  
Belgium**

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Model: **WaterMaster 25 Evo 2  
WaterMaster 25 X Evo 2  
WaterMaster 35 Evo 2  
WaterMaster 45 Evo 2  
WaterMaster 45 X Evo 2  
WaterMaster 60 Evo 2  
WaterMaster 70 Evo 2  
WaterMaster 70 X Evo 2  
WaterMaster 85 Evo 2  
WaterMaster 120 Evo 2**

We declare hereby that the appliance specified above is conform to the following regulations and directives:

| Regulation/Directive | Description                                                      | Date       |
|----------------------|------------------------------------------------------------------|------------|
| (EU) 2016/426        | Regulation relating to appliances burning gaseous fuels          | 09.03.2016 |
| (EU) 814/2013        | Ecodesign Regulation (implementing Directive 2009/125/EC)        | 09.01.2017 |
| (EU) 812/2013        | Energy Labelling Regulation (supplementing Directive 2010/30/EU) | 26.04.2018 |
| 2014/35/EU           | Low Voltage Directive                                            | 26.02.2014 |
| 2014/30/EU           | Electromagnetic Compatibility Directive                          | 26.02.2014 |

Relevant harmonised standards :

|                     |                 |                   |
|---------------------|-----------------|-------------------|
| EN 89:2015          | EN 55014-1:2021 | EN 61000-3-2:2019 |
| EN 60335-2-102:2016 | EN 55014-2:2021 | EN 61000-3-3:2014 |

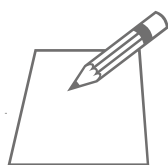
The notified body, (KIWA Nederlands B.V. , Wilmersdorf 50, PO Box 137, 7300 AC APELDOORN, The Netherlands [0063]) performed a Type examination and issued the certificate(s) Nb 17GR0187/03, ID # **0063CQ3618**

**Signed for and on behalf of  
Groupe Atlantic Manufacturing Belgium**

Seneffe, 20/09/2025



R&D Director  
Céline Coupain



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[www.acv.com](http://www.acv.com)



Groupe Atlantic Manufacturing Belgium  
Rue Henry Becquerel, 1  
7180 Seneffe  
Belgium



## Cross-Reference Table - Evo 2 Models

### APPLICABILITY :



664Y8600 - HeatMaster 25 - 35 - 45 - 70 - 85 - 120 Evo 2

664Y8700 - WaterMaster 25 (X) - 35 - 45 (X) - 60 - 70 - 85 - 120 Evo 2

| Ref. | ACV      | Groupe Atlantic |
|------|----------|-----------------|
| 1.   | 537D6287 | 786251          |
| 2.   | 537D6184 | 786195          |
| 3.   | 537D6185 | 786196          |
| 4.   | 10800301 | 784474          |
| 5.   | 537D6290 | 786254          |
| 6.   | 537D6300 | 786257          |
| 7.   | 537D6301 | 786258          |
| 8.   | 537D6211 | 786217          |
| 9.   | 537D6212 | 786218          |
| 10.  | 537D6213 | 786219          |
| 11.  | 537D6197 | 786205          |
| 12.  | 537D6198 | 786206          |
| 13.  | 537D6275 | 786249          |
| 14.  | 537D6186 | 786197          |
| 15.  | 537D6187 | 786198          |
| 16.  | 537D6188 | 786199          |
| 17.  | 537D6516 | 786362          |
| 18.  | 537D6271 | 786248          |
| 19.  | 537D6302 | 786259          |
| 20.  | 537D6303 | 786260          |
| 21.  | 537D6304 | 786261          |
| 22.  | 537D6517 | 786363          |
| 23.  | 537D6214 | 786220          |
| 24.  | 537D6215 | 786221          |
| 25.  | 537D6216 | 786222          |
| 26.  | 537D6217 | 786223          |
| 27.  | 537D6199 | 786207          |
| 28.  | 537D6200 | 786208          |
| 29.  | 537D6201 | 786209          |
| 30.  | 537D6189 | 786200          |
| 31.  | 537D6305 | 786262          |
| 32.  | 537D6218 | 786224          |
| 33.  | 537D6202 | 786210          |
| 34.  | 537D6190 | 786201          |
| 35.  | 537D6191 | 786202          |
| 36.  | 537D6306 | 786263          |
| 37.  | 537D6307 | 786264          |
| 38.  | 537D6219 | 786225          |
| 39.  | 537D6220 | 786226          |

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| 40.  | 537D6221 | 786227          |
| 41.  | 537D6222 | 786228          |
| 42.  | 537D6203 | 786211          |
| 43.  | 537D6204 | 786212          |
| 44.  | 537D6193 | 786203          |
| 45.  | 537D6229 | 786231          |
| 46.  | 537D6308 | 786265          |
| 47.  | 537D6310 | 786267          |
| 48.  | 537D6223 | 786229          |
| 49.  | 537D6226 | 786230          |
| 50.  | 537D6266 | 786246          |
| 51.  | 537D6448 | 786301          |
| 52.  | 537D6182 | 786193          |
| 53.  | 537D6183 | 786194          |
| 54.  | 537D6194 | 786204          |
| 55.  | 37D6267  | 786247          |
| 56.  | 537D6451 | 786303          |
| 57.  | 537D6209 | 786215          |
| 58.  | 537D6210 | 786216          |
| 59.  | 537D6208 | 786214          |
| 60.  | 537D6231 | 786232          |
| 61.  | 537D6405 | 786287          |
| 62.  | 537D6207 | 786213          |
| 63.  | 537D6293 | 786256          |
| 64.  | 537D6172 | 786191          |