

THE BOILTE ENGINEERING INTEGRITY CHARTER

PREAMBLE: SINCERITY AS A FOUNDATION

We, the engineers and creators at Boilte, address you not as mere customers, but as partners who have entrusted us with what matters most—the warmth and safety of your home, your production, your business.

The boiler equipment market is saturated with compromises. We witness competitors deliberately simplifying designs, reducing safety margins, using materials "just enough," and concealing real operating conditions just to win the pricing race. We consider this path to be a dead end—not only for the industry, but for those who entrust us with their heat.

Boilte is founded on a different paradigm. We believe that true economy is achieved not by lowering the purchase price, but by ensuring reliable operation over decades. This document is not merely a set of rules. It is our oath, publicly given to you and the market. It is the foundation upon which every turn of the heat exchanger coil, every algorithm on the control board, and every word in the product passport is built.

We voluntarily accept this Charter so that you may always distinguish genuine engineering from marketing gimmicks. This is not a promotional brochure. This is our word, sealed by engineering conscience.

ARTICLE 1: "OVER-ENGINEERING AS THE STANDARD"

"A safety margin is the only real insurance"

In an era of total optimization and the battle to reduce production costs, we consciously swim against the current. What others call "redundancy" and "excess cost," we call "engineering conscience."

1.1. The "Thick Wall" Principle

The metal thickness in our boilers always exceeds the minimum calculated pressure parameters by 30-40%. We do not polish cast iron to a shine if it makes it thinner. We do not skimp on stiffening ribs. Every millimeter of metal is not a cost—it is an investment in your peace of mind.

1.2. The Ignorance Factor

When designing, we incorporate a safety factor not only for calculated loads but also for potential installation errors, power surges, poor-quality coolant, and abnormal frosts. A Boilte boiler must survive where ideal conditions cease to exist. We design not for the laboratory—we design for real life.

1.3. Control Redundancy

We install more sensors and protection levels than the standard requires. It is better for the system to shut down falsely for a check than to miss a critical failure. Control redundancy is not complexity—it is an additional shield between you and an accident.

ARTICLE 2: TRANSPARENCY OF CALCULATIONS

"We do not hide behind complex formulas"

Most manufacturers provide the buyer with only a promotional leaflet, hiding the real data "under the hood." We are fundamentally open. Because we have nothing to hide.

2.1. Open Passport

In Boilte's technical documentation, you will always find not only the "nameplate" output but also graphs of efficiency versus load, pressure drop nomograms, and real hydraulic resistances. We publish even the figures we are not legally obliged to publish. Because you have the right to know.

2.2. Honest Output

Our stated output is the output the boiler can deliver stably, hour after hour, not in peak mode during the first 10 minutes of burner operation. We do not inflate figures for pretty catalogue numbers. 100 kW from Boilte means 100 kW at any minute, any day, any season.

2.3. Access to Engineering

Any designer or service engineer can request our extended verification calculations for components and will receive them. It is important for us that professionals understand the

mechanics of our equipment as well as we do. We do not fear scrutiny—we welcome it.

ARTICLE 3: SAFETY PRIORITY OVER COST

"Zero Tolerance for Risk"

Boilte has a strict rule: any component affecting safety is designed as if material cost does not matter. Because safety has no price.

3.1. Prohibition of Risky Solutions

We never use plastic in components that come into contact with flue gases or primary circuit coolant, even if it is permitted by standards and would reduce the cost by 50%. Only metal, ceramics, and heat-resistant alloys. Cheaper does not mean safer.

3.2. Multi-Level Protection

The safety automation of our boiler is duplicated by mechanical safety valves. If the electronics fail, the mechanics will activate. If the mechanics fail, the construction itself will activate (emergency pressure relief through membrane rupture). Three lines of defense. No "what ifs."

3.3. Testing with Cruelty

Each new model undergoes crash tests in modes prohibited by the manual: operation with a complete lack of water, operation at double the nominal pressure, operation at extreme temperatures. We must know when and how the limit will be reached, so that it is never reached in your home. We destroy our own boilers so that you never see them destroyed.

ARTICLE 4: LIFETIME ENGINEERING RESPONSIBILITY

"We are responsible for what we design"

Our responsibility does not end with the sale of the equipment or the expiration of the warranty period. The engineering thought embedded in the boiler continues to work, and we are ready to confirm its validity for years.

4.1. The Solution Archive

We undertake to retain design documentation and supply spare parts for any model for at least 15 years from the date of the last unit produced in that series. What you buy today will not become a "brick" in 7 years due to the unavailability of a simple gasket. Your boiler will not become obsolete until you decide to replace it.

4.2. Feedback Loop

We continuously improve designs based on operational data. If, after 5 years, it becomes clear that even with correct operation, a systemic problem arises in a specific model, we will conduct an engineering audit and offer an upgrade (retrofit kit) at our expense. This is our risk, not yours. Because we learn from our mistakes faster than you have time to encounter them.

4.3. The Reputation Fund

A portion of the company's profit is allocated to a special reserve fund intended exclusively to cover costs associated with fulfilling warranty obligations and retrofits, ensuring that no economic difficulties can force us to renege on our promises. Our words are backed by money. We have reserved funds to always fulfill our obligations.

ARTICLE 5: THE ENGINEER'S VETO

"Physics matters more than commerce"

Boilte operates under a rule that places engineering reason above financial plans.

5.1. The Right to Stop

The Chief Engineer and Lead Design Engineers have the right to impose an unconditional veto on the shipment of any equipment unit if they have professional doubts about its safety or compliance with internal Boilte standards. This right cannot be overridden by the Commercial Director or the CEO. Only the Engineering Council.

5.2. Engineer Protection

An engineer who imposes a veto in good faith cannot be subject to disciplinary action for missed deadlines, even if it later turns out that their concerns were excessive. An error on the side of safety is not an error. It is a manifestation of engineering conscience.

5.3. Publicity of Veto

Each case of a veto being invoked is analyzed at the Engineering Council to improve internal

standards. We do not hide our mistakes—we use them as a tool for development.

ARTICLE 6: ENVIRONMENTAL RESPONSIBILITY

"Heat must not harm the planet"

We bear responsibility not only to you, but also to future generations.

6.1. Emission Minimization

We design boilers with maximum efficiency and minimum NOx and CO emissions. Every one of our boilers is a contribution to clean air. We do not wait for environmental regulations to force us to change—we change voluntarily and in advance.

6.2. Resource Efficiency

We strive to use less metal where it does not affect reliability, and more where it extends service life. Every kilogram of steel saved without compromising quality is a reduced burden on the planet.

6.3. Recycling and Disposal

We design equipment with consideration for its safe disposal and recycling at the end of its life cycle. Over 90% of the materials in our boilers are recyclable.

CONCLUSION: HEAT WITH A CONSCIENCE

Dear Customer, Partner, Colleague.

By choosing Boilte, you are choosing more than just a water heating appliance. You are choosing a philosophy where engineering thought is placed above short-term profit. You are choosing a partner who will not hide behind fine print when questions arise.

We may be wrong about delivery dates, we may argue about logistics terms, but there are things on which we are unwavering:

- We will never cheat on calculations.
- We will never skimp on safety.
- We will never leave you alone with a problem.
- We will always admit our mistake, if one occurs.
- We will always do everything possible to correct the situation.

This is the Boilte Engineering Integrity Charter. We stand by every word of it—not with ink, but with our reputation and decades of experience. We are prepared to publicly answer for every promise made in this document.

Because an engineer without integrity is merely a craftsman. And we are engineers.

With respect and engineering pride,
The Boilte Development Team