

Safe Acid Burning & Color Hanging Cabinet | >98% purify

## Automatic Safe Acid Burning and Color Hanging Cabinet

Heated sulfuric and nitric acid work behind a closed door, with 98 percent of the fume treated.



A PP cabinet for acid burning and colour hanging of gold and silver jewelry: heated sulfuric and nitric acid in German quartz beakers annealed at 1200 C, a fully enclosed structure, an acid gas purification system with pH control, fan and water pump, and a purify efficiency of more than 98 percent.

### The problem it is built for

Acid bombing removes the copper from the surface of a gold piece and brings the colour up. It is also the single most dangerous half hour in a jewelry factory. Enclosing it, automating the timing and treating the fume is the difference between a controlled process and an incident waiting to happen.

### Published specification

| Parameter         | Value                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------|
| Product name      | Gold jewelry acid bombing / acid polishing cabinet                                               |
| Brand             | XHF                                                                                              |
| Function          | Heating sulfuric and nitric acid with gold jewelry to remove internal copper and brighten colour |
| Composition       | Acid gas purification system + pH control device + fan + water pump                              |
| Purify efficiency | More than 98%                                                                                    |
| Cabinet material  | Industrial-grade PP (polypropylene)                                                              |
| Quartz components | Imported German quartz beaker and basket, annealed at 1200 C                                     |
| Weight            | 500 kg                                                                                           |
| Core components   | Pump, PLC, furnace                                                                               |
| Certificate       | Invention patent verification                                                                    |
| Warranty          | 1 year                                                                                           |
| Supply ability    | 100 sets per month                                                                               |

# Automatic Safe Acid Burning and Color Hanging Cabinet - features and applications

## What is built into it

| Feature                           | What it does                                                                                                                                                                               |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fume treated, not just extracted  | An acid gas purification system with a pH control device, fan and water pump, rated at more than 98 percent purify efficiency. Extraction alone moves the problem outside; this treats it. |
| Everything acid-proof             | Working tank, exhaust system and frame are all made of acid-proof material, against nitric acid, hydrochloric acid and aqua regia.                                                         |
| German quartz, annealed at 1200 C | Both beaker and basket. Annealing at 1200 C is what gives them the purity and strength to hold up under strong acid at temperature.                                                        |
| Heat-resistant basket handles     | Quartz baskets are fitted with heat-resistant handles so jewelry can be moved safely during acid boiling and rinsing.                                                                      |
| PLC and push-button control       | Heating, timing and exhaust run from an intuitive control panel, which is what makes the process repeatable across operators rather than dependent on one experienced person.              |

## Where it is used

- Acid treatment and colour hanging of gold and silver jewelry
- Chemical cleaning of metal accessories
- Jewelry factories and electroplating workshops handling heated acid
- Copper removal from the surface layer of gold pieces before final finishing

## Questions buyers ask

### What does acid burning actually do to the piece?

Two things, per the source: it removes the copper inside the jewelry, and it makes the colour of the jewelry more shining.

### How much of the acid fume is dealt with?

More than 98 percent, through the acid gas purification system with its pH control device, fan and water pump.

### Why quartz rather than glass?

The beaker and basket are imported German quartz annealed at 1200 C, which is what lets them resist high temperature and stay stable in strong acid or alkali.

### Is there a patent on it?

The product data lists an invention patent verification as its certificate. Xinhongfa holds 2 invention patents and 3 utility model patents in total.

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