



Babcock Wanson UK
ENIM Group

Energy made to Measure

Babcock Wanson Recuperative Thermal Oxidisers for Rendering Processes



- Integrated plant design
- Project Management
- Research and design based solutions plus extensive international experience
- Upgradable designs to suit changing legislation and customer needs
- Lifetime care by Babcock Wanson

● Environmental Issues

To ensure that the business of rendering is carried out in accordance with environmental legislation, one important problem to be dealt with is airborne effluent emission.

● Airborne Effluent and Odour Clean-up

Recuperative Thermal Oxidising with heat recovery in the form of steam or thermal fluid offering a fully integrated solution efficiently with relatively low capital and running costs. For most plants this is the preferred option to deal with both airborne effluent and odour problems.



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Combination systems may also be used effectively if plant is available. This arrangement can offer some useful standby for plant maintenance to be planned at the most convenient time, thus ensuring maximum plant life.

● The Babcock Wanson Thermal Oxidiser

With the Babcock Wanson system the low concentration emissions such as extract air from storage silos and from general process areas, can be used for combustion air with a proportion of recovered heat added for combustion air preheat.

The higher concentration emissions, such as cooker extract vapours and highly contaminated process area air, can be directly injected into the Babcock Wanson Thermal Oxidiser chamber for destruction at a temperature and for a time to suit the process requirements.

● Fuels and Tallow Burning

Primary fuel may be – Recovered Tallow, Oil or Gas, according to availability.

● Heat Recovery

The resulting treated hot gases from the Thermal Oxidiser pass through a Babcock Wanson heat recovery boiler or thermal fluid heater from where the recovered heat returns to the rendering process for re-use in the cooker and other heat users.

● Efficiency

The high overall plant efficiency obtained may be further enhanced by adding a final exhaust gas to water recovery unit before the treated gases are discharged to atmosphere.

● Technology and Project Management

The complex balancing of rendering plant process needs, effluent flows, thermal oxidising technology, chemical engineering and turnkey design and build exist with very few expert companies.

Babcock Wanson are leaders in this field with many highly successful references throughout Europe and many years experience drawn not only from this specific industry sector but from a wide range of plant design and manufacturing applications in all areas of industrial heat and energy use.

● Service and Plant Care

Babcock Wanson worldwide specialise in after sales plant care with particular accent on preventative maintenance for all areas of our business. In the UK we have 20 fully qualified Service Engineers able to provide the essential aftercare needs of the wide

variety of equipment available from our Group from Boilers to Thermal Oxidisers and from Air Heat Systems to Water Treatment and Thermal Fluid Systems. Similar service facilities are available from our other Group Companies throughout Europe and major industrial areas across the world.

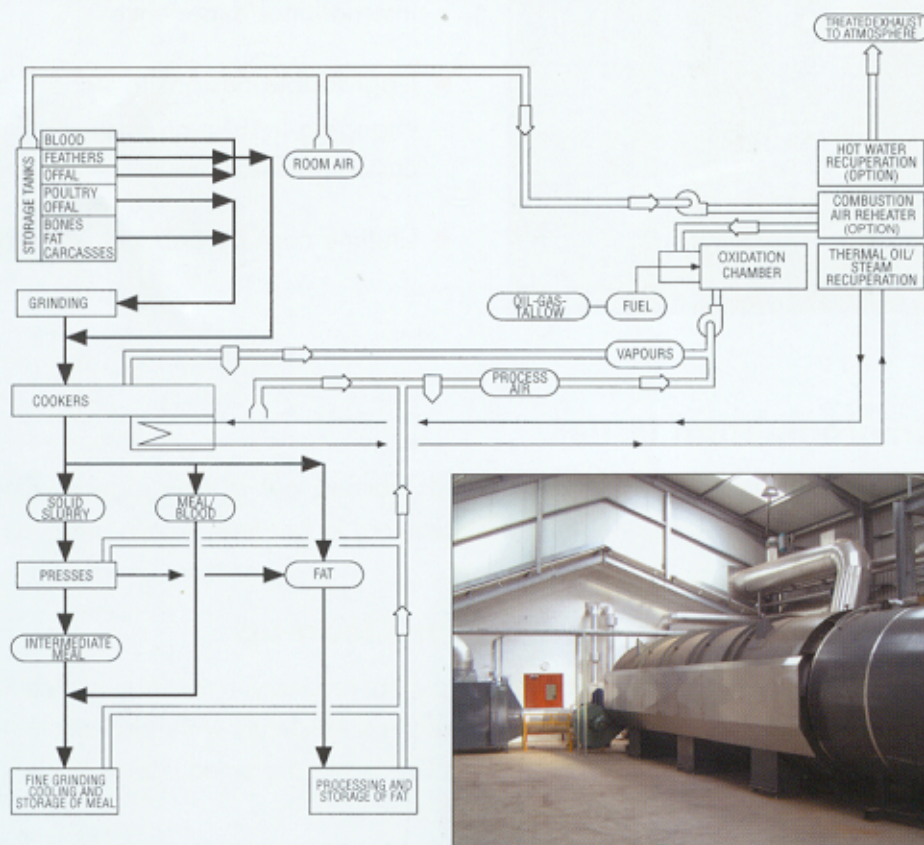
● Action

Call Babcock Wanson Process Engineering Division and talk through any aspects of your system problems or future plans with us. Our specialists are keen to help and are pleased to visit you if you wish.

● Complementary Products

Babcock Wanson complementary products include Air Heating Equipment for space and process applications, Thermal Fluid Heaters and systems for advanced energy and operational saving, coil type Steam Generators up to 8t/hr, Fire Tube Steam Boilers and all associated equipment plus the Turnkey option.

Typical Example of Flow Diagram for a Rendering Plant



**"120 years of Babcock – 73 years of Wanson – 46 years of Wanson UK.
There is no substitute for experience."**



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Sales and Manufacturing facilities in United Kingdom, France, Italy, Morocco, Central Europe, Portugal, Spain and Switzerland.

The Babcock Wanson Organisation operates in more than 50 countries. This network makes it possible to offer services to Babcock Wanson customers anywhere in the world. Babcock Wanson Company's policy is one of continuous improvement and the right is reserved to change specifications and dimensions at any time without notice.