Heat Recovery from Condensate and Boiler Blowdown
Date added to ETL 2001 (Revised 2013).

1. Definition of Technology

Heat recovery from condensate and boiler blowdown covers products that are specifically designed to recover heat from steam condensate and / or water from boiler blowdown, by means of heat exchangers and/or flash steam recovery vessels.

2. Technology Description

Significant amounts of heat can be recovered from the water extracted during boiler blowdown and from steam condensate. However this water can contain significant levels of contaminants that reduce the efficiency of the heat recovery process.

The ECA Scheme encourages the purchase of heat recovery equipment that is specifically designed to recover heat from steam condensate and/or water from boiler blowdown.

The ECA Scheme covers three categories of product:

1. Flash steam recovery vessels or packages
   with associated control and safety devices
2. Heat exchanger units or packages
   with associated control and safety devices
3. Flash steam vessel with heat exchanger packages
   with associated control and safety devices

Where packages may include the following components necessary for operation of the equipment: pressure gauges, vacuum breakers, vent heads, valves and steam traps.

Investments in equipment for heat recovery from condensate and boiler blowdown can only qualify for Enhanced Capital Allowances if the specific product is named on the Energy Technology Product List. To be eligible for inclusion on the Energy Technology Product List, products must meet the eligibility criteria as set out below.

3. Eligibility Criteria

To be eligible products, must:

- Be specifically designed to recover heat from steam condensate and / or water from boiler blowdown, by means of heat exchangers and/or flash steam recovery vessels.

- Conform to the requirements of the EU Pressure Equipment Directive PED 97/23/EC in respect of their design, manufacture and testing procedures.
4. Scope of Claim

Expenditure on the provision of plant and machinery can include not only the actual costs of buying the equipment, but other direct costs such as the transport of the equipment to site, and some of the direct costs of installation. Clarity on the eligibility of direct costs is available from HMRC.