

Evaporative Condensers

Date added to ETL 2001 (Revised 2009).

1. Definition of Technology

Evaporative Condensers are specifically designed to cool and condense high-pressure refrigerant vapour by means of a heat exchanger that has a continuously wetted external surface across which air is blown by a fan.

2. Technology Description

Evaporative condensers allow refrigeration systems to operate with lower head pressures and higher efficiencies than can be achieved using air-cooled condensers or water-cooled condensers. They use evaporative cooling to remove heat from the refrigerant vapour.

Evaporative condensers are generally used in larger refrigeration systems and the ECA Scheme aims to encourage their purchase as an alternative to lower efficiency solutions.

Investments in evaporative condensers can only qualify for Enhanced Capital Allowances if the 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:

- Incorporate:
 - a) A heat exchanger that is designed to cool and condense refrigerant vapour.
 - b) A fan that blows air over the heat exchanger.
 - c) A mechanism that continually wets the external surface of the heat exchanger that includes a water pump and a water storage tank.
 - d) A means of measuring total dissolved solids content of the water in the storage tank.
 - e) A blow down facility for the water storage tank to enable total dissolved solids content of the water in the storage tank to be controlled.

- Conform with the requirements of the EU Pressure Equipment Directive PED 97/23/EC in respect of its design, manufacture and testing procedures, or be CE marked.

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](#).

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