

Accelerated Capital Allowances Eligibility Criteria

Category: Heating and Electricity Provision**Technology: Condensate Recovery Systems Eligibility Criteria**

Condensate Recovery Systems are defined as equipment which is specifically designed to efficiently recover condensate from steam installations in order to maximise their overall energy efficiency.

Condensate Recovery Systems equipment is considered to include the following:

Steam Traps

Steam traps are devices which allow the discharge of condensate without allowing the release of steam from a steam & condensate installation.

Deaeration Tanks

Deaeration tanks remove oxygen and other dissolved gases from steam boiler feedwater to reduce corrosion and improve efficiency in the steam system.

Eligibility Criteria Overview

In order to be included on the ACA Specified List, the specific Condensate Recovery Systems equipment must meet *all* of the relevant requirements set out below.

Note: *Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

Steam Traps specific Eligibility Criteria:

No.	Condition
1.	Steam trap must be one of those defined in EN 26704 "Classification of automatic steam traps", or scientific equivalent. <u>And</u> Steam trap must be designed and manufactured in accordance with IS/EN 26948 "Production and performance characteristic tests for automatic steam traps", or scientific equivalent.
2.	Must include Failure Monitoring: <ul style="list-style-type: none"> • Failure sensor located in the steam trap or in suitable device adjacent to it; • Output from sensor either to an intermediate device which communicates with a control system or directly to control system • Output to BMS, DCS, Delta V or other equivalent control system.

Deaeration Tanks specific Eligibility Criteria:

No.	Condition
3.	Equipment must be capable of achieving a minimum dissolved oxygen concentration of 5 ppb by weight or less.
4.	Equipment must be rated for total removal of dissolved carbon dioxide.
5.	Low vent losses must be less than or equal to 22.4 kg/h of steam/air mixture per 1 000 kg/h of deaerator capacity.
6.	Allow rapid load changes of boiler for which designed – minimum of 5% of boiler rating in 30 seconds.
7.	All equipment and/or components must be CE marked as required by the specific EU directive(s).

----- End of ACA eligibility criteria -----
Please see next section for technical detail submission and supporting documentation guidance

The following information is not part of the official criteria document published within the relevant statutory Instrument; it has been added here for guidance purposes only in order to provide assistance with the submission of product details and the provision of the required supporting documentation.

Note: All information contained within this guidance document is subject to change without notice

Technical information required in product submission

The following are the specific technical values required as part of the product submission for this technology:

Condensate recovery system product type

You must select which type of condensate recovery system your product is. Only one type can be chosen per product.

Supporting documentation required

Described below is the list of documents that are accepted as proof of compliance for the specific Condensate Recovery Systems conditions.

Note: This information will only be requested **AFTER** you submit your product's basic details online

Important Notes to Product Providers

Please ensure that you read the "Important Notes to Product Providers" section at the end of this document prior to submitting documentation.

Steam Traps specific Eligibility Criteria:

No.	Condition	Supporting Documentation Requirement
1.	<p>Steam trap must be one of those defined in EN 26704 "Classification of automatic steam traps", or scientific equivalent.</p> <p><u>And</u></p> <p>Steam trap must be designed and manufactured in accordance with IS/EN 26948 "Production and performance characteristic tests for automatic steam traps", or scientific equivalent.</p>	<p>Official and published manufacturer's technical data sheet or brochure confirming that the equipment is one of those defined in EN 26704.</p> <p><u>AND</u></p> <p>Official and published manufacturer's technical data sheet or brochure confirming that the equipment has been designed and manufactured in accordance with EN 26948.</p> <p>See note on 'Scientific Equivalence' in Important Notes to Product Providers section at end of this document.</p>
2.	<p>Must include Failure Monitoring:</p> <ul style="list-style-type: none"> • Failure sensor located in the steam trap or in suitable device adjacent to it; • Output from sensor either to an intermediate device which communicates with a control system or directly to control system • Output to BMS, DCS, Delta V or other equivalent control system. 	<p>Official and published manufacturer's technical data sheet or brochure that demonstrates compliance with the requirements of the condition.</p>

Deaeration Tanks specific Eligibility Criteria:

No.	Condition	Supporting Documentation Requirement
3.	Equipment must be capable of achieving a minimum dissolved oxygen concentration of 5 ppb by weight or less.	Official and published manufacturer's technical data sheet or brochure that demonstrates compliance with the requirements of the condition.
4.	Equipment must be rated for total removal of dissolved carbon dioxide.	Official and published manufacturer's technical data sheet or brochure that demonstrates compliance with the requirements of the condition.
5.	Low vent losses must be less than or equal to 22.4 kg/h of steam/air mixture per 1 000 kg/h of deaerator capacity.	Official and published manufacturer's technical data sheet or brochure that demonstrates compliance with the requirements of the condition.
6.	Allow rapid load changes of boiler for which designed – minimum of 5% of boiler rating in 30 seconds.	Official and published manufacturer's technical data sheet or brochure that demonstrates compliance with the requirements of the condition.
7.	All equipment and/or components must be CE marked as required by the specific EU directive(s).	<p>Official and published manufacturer's technical data sheet or brochure that demonstrates CE marking compliance.</p> <p><u>OR</u></p> <p>A copy of an official signed declaration on headed paper which confirms CE marking compliance.</p> <p>Official declarations should explicitly state the product for which CE marking is being confirmed (i.e. do not provide a letter simply stating general compliance with the relevant ACA Condition).</p> <p>Where a document is used to demonstrate conformance for a number of products or range of products it should clearly specify each individual product covered by that document.</p>

Important Notes to Product Providers

General

There should be a clear link between all supporting documentation supplied and the product being submitted. This will typically take the form of a product code or product name that can be cross referenced between the submitted product and relevant supporting documentation. If product codes / names have been changed since publication of the supporting documentation, then official evidence of this must be provided with the supporting documentation supplied.

Any deviation from these requirements will result in the supporting documentation not being considered adequate for the purposes of demonstrating compliance with the criteria conditions. This will in turn delay the submission and/or result in the product not being considered eligible.

Where the ACA criteria or help documentation reference compliance to appropriate rather than specific standards, the onus is on the product provider to ensure that supporting documentation supplied references recognised standards that apply to the submitted product, i.e. the product must be covered under the scope of a recognised standard.

If any product submitted is later found not to meet the performance or specification criteria, then this product will cease to be considered eligible for the ACA.

Note: When supplying the supporting documentation through the online process you must ensure that the correct page number(s) of the document is referenced when compliance with the relevant condition is being demonstrated. An explanatory note should also be given where more than one page number is referenced.

Test Report

A test report must comprise of the following elements:

An outline of the complete test including introduction, details on test conditions, the specific model details of the product tested, the steps taken in the test, the results, graphical representations, and a conclusion. All documents should be on headed paper and the document should be officially signed off. **All documentation must be in English**, or include adequate translation.

Certification

Where certificates are provided, all tests must be carried out by an organisation that is accredited by a national accreditation body recognised via the European Cooperation for Accreditation (preferred) or the International Accreditation Forum. **All documentation must be in English**, or include adequate translation.

Scientific Equivalence

Some ACA criteria conditions allow for scientifically equivalent tests and/or standards to be used. In the event that a product has not been designed, manufactured or tested to the specific standard named, then documentation relating to an equivalent internationally recognised standard may be used (where the phrase 'Or scientific equivalent' is included in the ACA condition or help documentation). In such applications, the onus will be on the product submitter to demonstrate satisfactory equivalence of the standards. However, submissions which reference such supporting documentation may take longer to process,

and if the product provider does not provide satisfactory evidence of equivalence, then the product will not be considered eligible for the ACA. **All documentation must be in English,** or include adequate translation.

Note: Where specific standards are cited in a condition or in the ACA help documentation, then documentation demonstrating that the relevant products have been designed, manufactured or tested to these specific standards is preferred. Scientific equivalence is considered the exception rather than the norm.

Representative testing

Where test information is required for a range of technically similar products (e.g. configurations of one base product) then in exceptional instances a form of representative testing may be utilised once agreed in advance with SEI. Such testing is where only representative products are tested from a technically similar group or range of products. Provided a clear correlation can be demonstrated between the tested product and technically similar non-tested product, and that such a correlation clearly demonstrates the compliance of the non-tested product, representative testing may form an acceptable basis for supporting documentation.

Note: Where representative testing is used for a group or range of products, if the tested or representative product is removed from the list of eligible products then all related products are also removed.