

Liquid pressure amplification units

Date added to ETL 2001 (Revised 2009).

1. Definition of Technology

Liquid pressure amplification units are products that are specifically designed to raise the pressure of liquid refrigerant at the inlet to refrigeration circuit expansion valves.

2. Technology Description

Liquid pressure amplification units are used to raise the pressure of liquid refrigerant at the inlet to refrigeration circuit expansion valve and enable refrigeration systems to operate at lower head pressures. They are electrically driven, but use less power than a compressor would need to achieve the same pressure increase at the inlet to the expansion valve. The ECA Scheme aims to encourage purchase of liquid pressure amplification units.

Investments in liquid pressure amplification 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 be:

- A sealed unit containing an electrically powered, glandless, refrigerant pump.
- Capable of operating at liquid refrigerant pressures above 4 barg.
- Capable of raising liquid refrigerant pressure by at least 10bar.
- 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](#).