

Guidance note 9

(PLEASE NOTE THIS GUIDANCE NOTE WAS WITHDRAWN ON 4<sup>TH</sup> AUGUST 2015. IT HAS BEEN SUPERSEDED BY CHANGES TO THE ENERGY TECHNOLOGY LIST CRITERIA IN THIS CATEGORY FROM THAT DATE.)



## **Guidance Note 9: Heat Pump Air Curtains**

**The Enhanced Capital Allowance Scheme for energy saving technologies**

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This Heat Pump Air Curtains Guidance Note is a procedure specifically to guide how compliance with air curtains ETCL compliance is achieved.

This document does not give guidance on compliance of other forms of heat pump technology supported by the ECA Scheme.

**For the most up to date copy of the ETL and for further information about the ECA Scheme please refer to the ECA website <http://etl.decc.gov.uk/etl>.** General information on ECA Schemes is available as <http://www.hmrc.gov.uk/manuals/camanual/Index.htm>.

Ownership for the ECA Scheme for energy-saving technologies resides with the Department for Energy and Climate Change (DECC) and HM Revenue and Customs. The Carbon Trust delivers the Energy Technology List.

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## Introduction

This guidance note clarifies the conditions required for heat pump air curtains to be supported by the ECA Scheme for energy saving technologies.

By their nature heat pump systems are complex. Small systems are comprised of two or more units whereas larger systems may be comprised of, for example, 30 or more units.

Heat pump air curtains are supported by the ECA scheme in TWO ENTIRELY DIFFERENT ways:

1. **Single-split Heat Pump Driven Air Curtains that consist of one ‘outdoor’ heat pump unit and one air curtain unit or package.** Individual units (e.g. an outdoor unit) are not listed on the Energy Technology Product List (ETPL), but combinations of heat pump air curtain units (i.e. a packaged heat pump air curtain product consisting of an indoor air curtain unit and an outdoor heat pump unit) can be listed on the ETPL in the Heat Pump Driven Air Curtains technology category when they meet or exceed the required Energy Technology Criteria List (ETCL) criteria.
2. **Heat Pump Driven Air Curtains Units for Multisplit (including VRF) Heat Pumps that consist of one air curtain unit or package that is specifically designed to replace one or more ‘indoor’ heat pump units within an ECA eligible multi-split (including VRF) heat pump.** Individual heat pump air curtain units are not listed on the ETPL, but heat pump driven air curtain units can be considered as indoor units within a multisplit (including VRF) heat pump system.

Individual air curtain units are not supported by the ECA scheme and cannot be said to meet ETCL criteria. It is a combination of 2 or more indoor and outdoor units that together form a productised heat pump air curtain solution that can be supported.

Further information on each of these solutions is provide later in this document.

# Single-split Heat Pump Driven Air Curtains that consist of one 'outdoor' heat pump unit and one air curtain unit or package

## How ETL qualification is achieved

Qualification is achieved by showing compliance with the Energy Technology Criteria for Heat Pump Driven Air Curtains provided in the Energy Technology Criteria List document at the time of application - see <https://etl.decc.gov.uk/etl/site/criteria.html>.

## Clarification of ETCL criteria

The ETCL criteria for Heat Pump Driven Air Curtains are to be used for showing compliance of single-split heat pump driven air curtains. All requirements laid out in these criteria must be met or exceeded for before products can be listed on the ETPL.

## Note

Units that qualify through being part of a compliant Heat Pump Driven Air Curtains Unit for Multisplit (including VRF) Heat Pump solution (see next section) DO NOT automatically qualify as single split heat pump air curtain units and cannot be automatically listed on the ETPL.

# Heat Pump Driven Air Curtains Units for Multisplit (including VRF) Heat Pumps

## How ETL qualification is achieved

Qualification is achieved by showing compliance with the **Energy Technology Criteria for Air Source: Split and Multi-Split (including Variable Refrigerant Flow) Heat Pumps** provided in the Energy Technology Criteria List document at the time of application

- see <https://etl.decc.gov.uk/etl/site/criteria.html>.

## Clarification of ETCL criteria

The ETCL criteria for Heat Pump Driven Air Curtains provide **ECA SCHEME SCOPE AND THE FUNCTIONAL REQUIREMENTS** for supporting Heat Pump Driven Air Curtains Units for Multisplit (including VRF) Heat Pumps that consist of one air curtain unit or package that is specifically designed to replace one or more 'indoor' heat pump units within an ECA eligible multi-split (including VRF) heat pump.

Heat Pump Driven Air Curtain units used in Multisplit (including VRF) Heat Pumps **DO NOT** have to be listed on the ETPL.

Heat Pump Driven Air Curtain units **are a permitted indoor unit type** in an Air Source: Split and Multi-Split (including Variable Refrigerant Flow) Heat Pump solution.

Qualification is achieved by showing compliance of the **ENTIRE** Air Source: Split and Multi-Split (including Variable Refrigerant Flow) Heat Pump solution (including the air curtain units) with the ETCL criteria for Air Source: Split and Multi-Split (including Variable Refrigerant Flow) Heat Pump solutions.

For example, the entire solution would have to meet the required Coefficient of Performance (COP, SCOP) and Energy Efficiency Ratio (EER, SEER) stated in the ETCL criteria for Air Source: Split and Multi-Split (including Variable Refrigerant Flow) Heat Pump solutions.

In addition, the Air Curtain units must conform to the functional requirements described in the ETCL criteria for Heat Pump Driven Air Curtains, section 3 Eligibility Criteria (i.e. the four bullet points listed under "To be eligible products must:...")

## Note

Individual units of a Single-Split Heat Pump Driven Air Curtain product solutions listed on the ETPL (e.g. the indoor unit) do not automatically qualify as compliant Heat Pump Driven Air Curtains Units for Multisplit (including VRF) Heat Pump solution.

The use of indoor air curtain units of ETPL listed Single-Split heat pump air curtains in a Split and Multi-Split (including Variable Refrigerant Flow) Heat Pump solutions is permitted, but such use is simply coincidence.

ETCL compliance is only achieved by the entire heat pump solution (i.e. the combination of all indoor and outdoor units, which may include air curtain units) meeting or exceeding the required ETCL criteria for Air Source: Split and Multi-Split (including Variable Refrigerant Flow) Heat Pump solutions.