



ConsERV Core Guide Specifications (version 5.2)

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General

1.1 Enthalpy Transfer Core

The enthalpy exchanger shall provide high performance sensible and latent transfer between the airstreams, model ConsERV as manufactured by Dais Analytic. This transfer shall be accomplished by moving energy (both sensible and latent) molecularly through the enthalpy exchanger surface (membrane) while keeping the airstreams physically separated.

The air to air enthalpy exchanger shall be of the fixed plate type and have no moving parts.

The unit shall be capable of both summer and winter operation with no condensate..

1.2 Quality Assurance

The energy recovery enthalpy exchangers shall be certified by ARI within the ARI Standard 1060 Certification program. At the nominal certified CFM, the enthalpy exchanger shall provide at least 60% total effectiveness for both heating and cooling conditions and 0% exhaust air transfer ratio (EATR) when tested at ARI differential pressure between airstreams. These values are to be produced from official ARI certification data and verification may be obtained via the www.aridirectory.org website which is made available to the public by ARI to ensure proper comparison of air to air energy recovery products.

The manufacturer shall provide independent testing of the enthalpy exchanger core to UL standard 900 with a flame spread result less than 25 and a smoke generation less than 50. These results meet NFPA 90A and 90B for a component within a ducted air system.

The enthalpy exchanger core shall be warranted to be free from manufacturing defects under normal use for a period of 10 years. The remainder of the unit shall be warranted to be free of manufacturing defects under normal use for a period of 2 years.