

How to Convert Existing Cold Storage Rooms for Refrigerated Drying

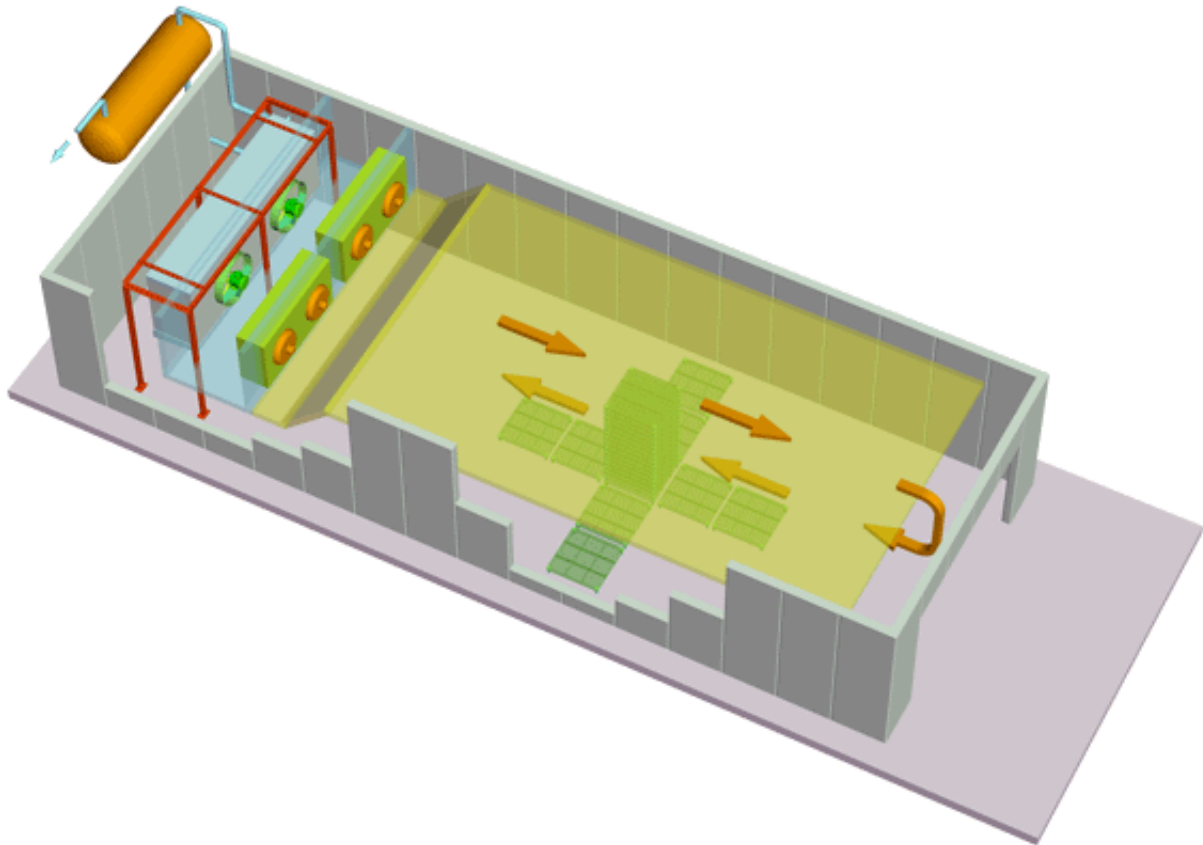
Due to high investment and operating cost, harvests of low commercial value—offal from fish processing and pelagic fish species—rarely sustain Refrigerated Drying. However, some products of higher value do; to name some: shark fins, squid, shell meat and bacalhau (salted Cod). To save on the investment, existing cold and frozen storage rooms (pictures below) can be converted for Refrigerated Drying.



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To convert an existing cold or frozen storage room for Refrigerated Drying, reheating units are placed in front of the evaporator (pictures above and below) and a false ceiling installed to guide the treated air to the front of the stack of goods (yellowish transparent in the picture). Energy for reheating can come from the condensers of the existing refrigerating plant, or from an external source.

The amount of energy required for reheating and the resulting drying capacity and general performance of the converted room depend entirely on the capability of the evaporator to dehydrate the recirculated air. For clarification see attached Mollier i-x Diagrams.



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Temperatures in the space between the evaporator and the reheating units (bluish transparent enclosure) can drop below freezing point; consequently, to prevent condensation on the outside, this section must be properly insulated, particularly in warm surroundings.

We - IceBits ehf of Iceland, www.ingvar.is - provide full sets of drawings and specifications, including the concepts for automatic controls, for local do-it-yourself conversion of existing cold and frozen storage rooms to Refrigerated Drying, at moderate charges.

*More on Refrigerated Drying:
[Fish Head Dryer](#)
[Fish Head Dryer - Large](#)*

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