

Abstract

This dissertation is a comparison of the various refrigeration systems available onboard tuna fishing vessels and the criteria for the selection of a technical solution. After a presentation of the evolution of the past techniques leading to modern refrigeration systems, the comparison will focus on the two main systems which are direct expansion of refrigerant mechanically pumped overfeed system or indirect refrigeration systems. The Choice between these systems will be explained in the last part as well as the refrigerant and of compressors technology.