

Studi super freeze container sebagai media penyimpanan dan pengangkut tuna ekspor = Study of super freeze container as storage and freight medium for exported tuna / Gifani Kinanti Nadia Putri

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Abstrak

[Super freeze container merupakan suatu media penyimpanan berpendingin yang dapat mencapai temperatur sangat rendah hingga -60°C . Tuna merupakan komoditas yang memanfaatkan kontainer ini di dalam pengirimannya sebagai komoditas ekspor beku. Dengan adanya kontainer ini memungkinkan tuna mencapai kualitas nomor 1 yang sangat disyaratkan oleh negara Jepang sebagai pengonsumsi tuna terbesar. Indonesia sebagai salah satu negara penghasil tuna terbesar di dunia seharusnya sudah memanfaatkan super freeze container. Oleh sebab itu diperlukan adanya suatu studi baik dari konstruksinya hingga sistem pendinginnya. Studi ini dimulai dengan perhitungan konstruksi dasar dan dilanjutkan dengan perhitungan cooling load. Cooling load total yang diperoleh digunakan untuk mendapatkan parameter-parameter siklus refrigerasi dan terakhir adalah pemilihan komponen sistem refrigerasi. Pada sistem ini digunakan sistem refrigerasi kompresi uap bertingkat atau cascade dengan menggunakan refrigeran R-404a dan R-23.; Super freeze container is a refrigerated storage that can reach very low temperature until -60°C . Tuna uses this container in its distribution as frozen commodity. With this container, tuna can be the most high quality tuna which is required by Japan as the largest country consuming tuna. Indonesia as the one biggest country producing tuna should apply super freeze container. Due to that reason, the study is needed from its construction until the refrigeration systems. Study is started with calculate the basic construction structure and continue with cooling load estimate. Sum of cooling load that have been calculated is uses to get refrigeration cycle parameter and the last is choosing the refrigeration equipment. This systems is using cascade compression systems with R-404a and R-23 as the working fluids., Super freeze container is a refrigerated storage that can reach very low temperature until -60°C . Tuna uses this container in its distribution as frozen commodity. With this container, tuna can be the most high quality tuna which is required by Japan as the largest country consuming tuna. Indonesia as the one biggest country producing tuna should apply super freeze container. Due to that reason, the study is needed from its construction until the refrigeration systems. Study is started with calculate the basic construction structure and continue with cooling load estimate. Sum of cooling load that have been calculated is uses to get refrigeration cycle parameter and the last is choosing the refrigeration equipment. This systems is using cascade compression systems with R-404a and R-23 as the working fluids.]