DESIGN OF WET TYPE EXHAUST GAS SYSTEM ON THE OFFSHORE PATROL VESSEL (OPV) 80 M

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Abstract

Offshore Patrol Vessel (OPV) 80 m is a multipurpose ship that can be used for military duty as well as SAR (Search and Rescue). The selection of exhaust systems for OPV is utilizing the wet exhaust gas system technology. In this thesis discusses the exhaust back pressure on the wet exhaust gas of this system. The result is the wet exhaust gas system back pressure is 14.45 mbar. The average pressure in the exhaust gas outlet is 28,246 Pa (abs). The final temperature of the flue gas coming out of the system is 396.375 0K or 123.375 0C. When installing a reverse scoop, the back pressure will be 14 – 15 mbar.

Keywords: wet exhaust gas, offshore patrol vessel, backpressure
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