

Consideration Regarding Maritime Ship Engine Room Ventilation System

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ABSTRACT

The work has been done on the study of bibliography and experience in the operation of the doctoral students in the field of commercial ships what different type of main engines and auxiliary engines. Air circulation in the engine compartment must ensure air quality breathing air for the crew members and the amount of air for thermal process development machines and power plants on ships in all the machinery spaces.

Keywords:

Ventilated air flow, ventilated air pressure, power drive fans, determining the temperature of the supercharge air, terms of reference for the environment.

1. INTRODUCTION

The paper highlighted that rules of ship classification societies concerning the main design and functional parameters of gas turbine integrated in naval propulsion systems, their design and construction, and a brief overview of the role of companies classification.

2. ENGINE ROOM AIR FLOW DETERMINATION

2.1 Specific Air Flow for Gas Exchange:

$$\dot{V}_{air,sp} = m_{air,th} \cdot C_{ex} \cdot C_f \left[\frac{kg_{air}}{kg_{fuel}} \right] \quad (1)$$

Where:

$m_{air,th}$ – theoretical air mass needed for burn of one fuel kilogram

C_{ex} – excess air coefficient for gas exchange

C_f – specific fuel consumption

As per REF [4] specific air flow needed for ventilation is:

$$\dot{V}_{air} = (1.5 + 2) \cdot \dot{V}_{air,sp} \left[\frac{m^3}{min} \right] \quad (2)$$

2.2 Mass Air Flow for Ventilation:

$$\dot{G}_{air} = (1.5 + 2) \cdot \dot{V}_{air} \cdot \rho_f \left[\frac{kg}{s} \right] \quad (3) \text{ where:}$$

P_{th} - The effective power of the thermal engine propulsion of the vessel

2.3 Volumetric Air Flow for Ventilation:

$$\dot{V}_{air} = (1.5 + 2) \cdot \frac{P_{th}}{\rho_{air}} \cdot \rho_f \left[\frac{m^3}{s} \right] \quad (4)$$

Where: $\rho_{air} \left[\frac{kg}{m^3} \right]$ is the compressor inlet air density

$$\rho_{air} = \frac{P}{R \cdot T} \left[\frac{kg}{m^3} \right] \quad (5)$$

For:

$$P_f = 100 \frac{kN}{m^2} ; R_{air} = 287.05 \frac{kJ}{kg \cdot K}$$

$$T_f = 310 K ; \rho_{air} = 1.2095 \frac{kg}{m^3}$$

Relation (4) becomes:

$$\dot{V}_{air} = \left(\frac{1.5+2}{1.2095} \right) \cdot \dot{V}_{air,sp} \cdot \rho_f \left[\frac{m^3}{s} \right] \quad (6)$$

3. FANS POWER DRIVE CALCULATION

3.1. Discharge Pressure of the Fan in Engine Room:

Measurement units for pressure:

$$1 [bar] = 100 \left[\frac{kN}{m^2} \right] = 10.203 [mmHg, C]$$

As per REF [4] $\Delta P_{ref} = 50 + 20 [mmHg, C]$

Result: Absolute Pressure

$$P_{ref} = 10.200 + 10.200 [mmHg, C]$$

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Huangqi Zhang



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Applying Physical Ergonomics to Modern Ship Design Alexander Arnfinn Olsen,2024-05-11 This book combines and summarizes the myriad rules regulations guidance and guidelines that pertain to the human factor element of vessel design and marine operations With a focus on physical ergonomics the book is thoroughly researched and draws on the most current Class rules and industry regulations promulgated by the IMO and other organizations As such this book serves as a single point of reference for professionals and students involved in human factors and ergonomics at sea

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Handbook of Diesel Engines Klaus Mollenhauer,Helmut Tschöke,2010-06-22 This machine is destined to completely revolutionize cylinder diesel engine up through large low speed t engine engineering and replace everything that exists stroke diesel engines An appendix lists the most From Rudolf Diesel s letter of October 2 1892 to the important standards and regulations for diesel engines publisher Julius Springer Further development of diesel engines as economiz Although Diesel s stated goal has never been fully ing clean powerful and convenient drives for road and achievable of course the diesel engine indeed revolu nonroad use has proceeded quite dynamically in the tionized drive systems This handbook documents the last twenty years in particular In light of limited oil current state of diesel engine engineering and technol reserves and the discussion of predicted climate ogy The impetus to publish a Handbook of Diesel change development work continues to concentrate Engines grew out of ruminations on Rudolf Diesel s on reducing fuel consumption and utilizing alternative transformation of his idea for a rational heat engine fuels while keeping exhaust as clean as possible as well into reality more than 100 years ago Once the patent as further increasing diesel engine power density and was filed in 1892 and work on his engine commenced enhancing operating performance [ISO Catalogue](#) International Organization for Standardization,2007 [Catalogue](#) International Organization for Standardization,2008 [Standards India](#) ,1988

Annual Book of ASTM Standards ASTM International, American Society for Testing and Materials, 2001 *Handbuch Dieselmotoren* Klaus Mollenhauer, Helmut Tschöke, 2007-11-04 Der Dieselmotor ist nach wie vor die wirtschaftlichste Verbrennungskraftmaschine für Fahrzeuge mobile und stationäre Arbeitsmaschinen Gerade vor dem Hintergrund der CO₂ Diskussion nimmt der Dieselmotor unter Berücksichtigung seiner Flexibilität seines Leistungsvermögens der Emissionen und Robustheit eine Spitzenstellung im Vergleich zu allen anderen Antriebsmaschinen ein An der nunmehr 3 neu bearbeiteten Auflage des Handbuchs haben 58 namhafte Fachleute mitgewirkt Gegenüber der Voraufgabe wird den immer wichtiger werdenden Themen Energieeffizienz Abgasemission Abgasnachbehandlung Einspritztechnik elektronisches Motormanagement sowie konventionelle und alternative Kraftstoffe mehr Raum gewidmet Das Werk wendet sich an den Fachmann der im Forschungs und Entwicklungsbereich oder in der Praxis tätig ist und gleichsam an Studenten des Maschinenbaus der Mechatronik sowie der Elektrotechnik und Elektronik die die Funktion und das Zusammenspiel des komplexen Systems Dieselmotor verstehen wollen

Handbuch Dieselmotoren Helmut Tschöke, Klaus Mollenhauer, Rudolf Maier, 2017-11-03 Die 4. Auflage dieses maßgeblichen Nachschlagewerkes informiert umfassend über den aktuellen Stand und die neuesten Entwicklungen der inzwischen 120 Jahre alten Dieseltechnologie Mehr als 90 Experten aus Industrie und Wissenschaft zeigen zentrale sowie zukunftsweisende Innovationen zur Verbesserung der CO₂ und Schadstoffemissionen des Betriebsverhaltens der Kosten der Zuverlässigkeit und Robustheit des Dieselantriebs Aktuelle Entwicklungen berücksichtigen das Werk mit Erweiterungen um Inhalte zu alternativen Kraftstoffen insbesondere zu Gasanwendungen sowie zur Einbindung des Dieselmotors in hybride Antriebskonzepte für Pkw und Nutzfahrzeuge Nach wie vor steht im Fokus der Entwicklungsanstrengungen der Dieselmotor hinsichtlich seiner NO_x und Partikelemissionen zu verbessern um auch kniffligen gesetzlichen Grenzwerten zu entsprechen Das Buch befasst sich mit der Theorie der Konstruktion und der Anwendung des Dieselmotors für alle möglichen Einsatzarten vom Antrieb für Pkw über SUVs und Pickups bis hin zu den schwersten Nutzfahrzeugen und Lokomotiven für stationäre und mobile Arbeitsmaschinen sowie für nahezu alle Schiffsklassen

Catalogue Bureau of Indian Standards, 2010 Directrices Sobre la Fatiga, 2002 Comprises self contained modules on the nature of human fatigue and its rating the specific symptoms occurring with ship's officers maritime pilots tugboat personnel etc and what naval architects owners operators and others can do to minimize the potential dangers associated with feeling tired and loss of sleep Refers to relevant ILO Conventions

Products and Services Catalogue, 2000 Kwic Index of International Standards International Organization for Standardization, International Electrotechnical Commission, 1991

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