

The WinGD X92DF-2.0: A new performance level for ultra-large container vessels

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1 Introduction

WinGD introduces a new version of the popular X92DF engine, upgraded to X-DF2.0 with Intelligent Control by Exhaust Recycling (iCER) technology. The new engine will be the WinGD X92DF-2.0.

The iCER technology has already been launched for most of the X-DF portfolio, and is now being released for the X92DF. The WinGD X92DF-2.0 is available in two variants:

- iCER gas mode
- iCER gas and diesel Tier III mode

The iCER technology offers significantly reduced energy consumption in both gas and diesel mode operation. The methane slip is reduced up to 50%.

The iCER technology was first introduced in TIN 018. The iCER diesel Tier III variant is now available and enables engine operation in liquid fuel mode fulfilling IMO Tier III NO_x compliance without additional exhaust gas aftertreatment. For further details see TIN 018-1.

2 Main engine parameters

The engine power rating field remains the same as the X92DF. The updated engine performance data for the WinGD X92DF-2.0 is available in the GTD 2.16 release.

3 The iCER system

A detailed description and arrangement of the iCER system for the WinGD X92DF-2.0 is available in the Marine Installation Manual (MIM). A schematic of the iCER system for this engine with multiple turbochargers is shown in Figure 3-1.

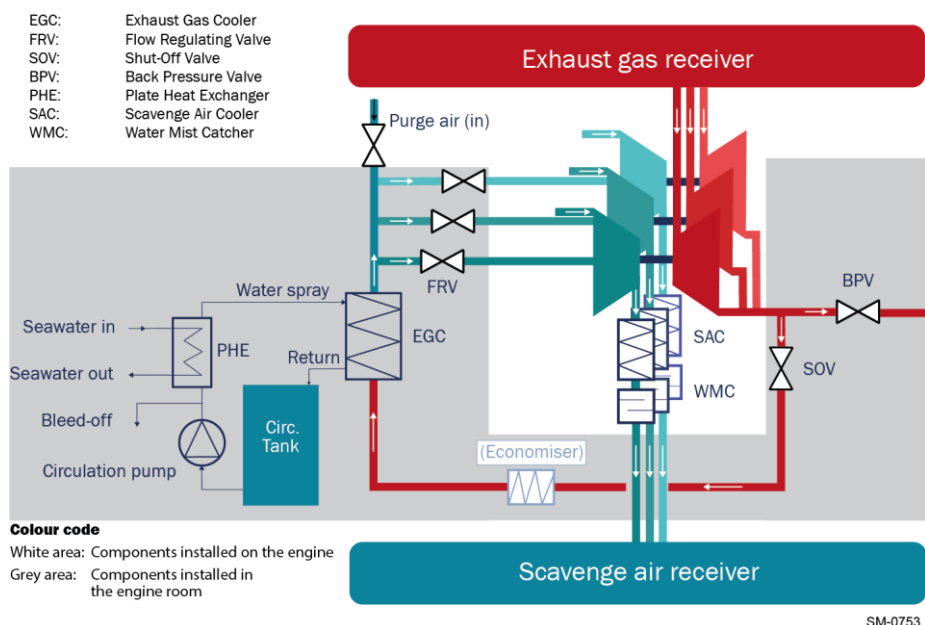


Figure 3-1: The iCER system with three turbochargers