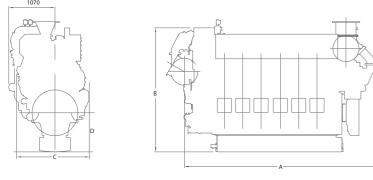


NOx OF MONO FUEL LESS THAN 1/10TH OF IMO TIER III

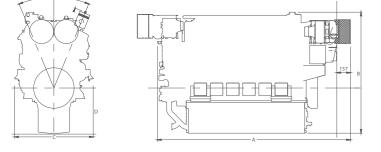
BEHYDRO

STATE OF THE ART TECHNOLOGY

INTERCOOLER



	A	В	C	D	[MM]
6DZC	4007	2741	1994	810	
8DZC	4767	2741	1994	810	



	А	В	C	D	[MM]
12VDZC	4896	2840	1850	1060	
16VDZC	5656	2840	1850	1060	

CLOCKWISE OR ANTI-CLOCKWISE ROTATION

6

Pow Pow Swept vo Dry weig

ABC 6DZC HYDROGEN COMBUSTION ENGINE

LIFETIME EXCEEDING 200.000h

WHYDROGEN

HIGH EFFICIENCY MEDIUM SPEED ENGINE

GENERAL ENGINE DATA

	6DZC	8DZC	12DZC	16DZC
linders	6 inline	8 inline	12 V	16 V
rpm	1000	1000	1000	1000
er [kW]	1000	1335	2000	2670
ver [hp]	1353	1813	2706	3626
l [litre]	95.71	127.61	191.51	255.21
ght [kg]	10620 kg	13905 kg	18000 kg	21750 kg

MARKET APPLICATIONS



HYDROGEN STORAGE

396 cilinder tanks - 250 bar Storage of 400 kg hydrogen Easy maintenance/acces/removal Modulair hydrogen storage system

FIRE-FIGHTING SHIP

Capable of 2400m3/h water spray - 750kW power demand

V12 - 2000kW Dual Fuel Hydrogen/Diesel co-combustion

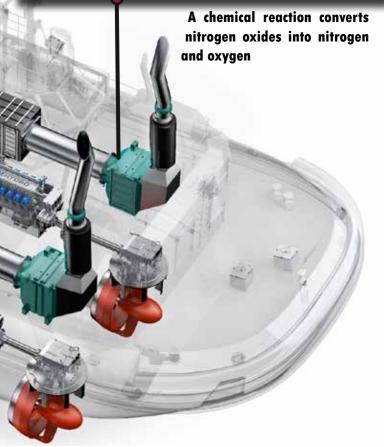
HYDROTUG

Port of Antwerp - Belgium 65 ton bollard pull - tractor tug EU STAGE V (SCR & DPF) - IMO TIER III 2x dual-fuel V12 - 4000 kW FiFi 1 - water spray

DIESEL PARTICULATE FILTER

DPF removes diesel particulate matter or soot from the exhaust gas

SELECTIVE CATALYTIC REDUCTION



BEHYDRO DUAL-FUEL ENGINE

Up to 75% hydrogen combustion

With BeHydro gensets, up to 85% of the GHG emissions of a regular diesel generator can be saved. If combined with green H2 production, these gensets can provide clean power at a cheaper cost compared to fuel cell or battery technology. The BeHydro mono fuel gensets can offer a zero carbon footprint while offering a reliable and affordable power supply.

14.

BEHYDRO



to the vessel. There no expensive power converters required.

CONTAINERIZED GENSET

BEH,YDRO

RAILWAY SOLUTIONS

Many railway tracks are difficult to be electrified. Hydrogen-diesel powered locomotives can be used on these tracks to achieve a low carbon emission footprint.

POWERE



CONTAINERIZED HYDROGEN ENGINE

As part of the testing, a full scale production model of the 6 cylinder BeHydro engine was installed into a custom made container. The full setup of the BeHydro engine, container, hydrogen valve train, generator and H2 supply is extensively being tested in Ghent. During the full scale testing the efficiency, reliability and performance will be fine-tuned even further. BeHydro can rely on a large in-house expertise and state of the art engineering team which will closely monitor and is able improve the performance of the hydrogen combustion technology. The target is to deliver high quality and reliable hydrogen combustion engines for today's competitive demanding market.



BELGIAN **JOINT VENTURE**

The joint venture combines the skills of a premium engine manufacturer with the insights from a leading ship owner. Many industries such as shipping, railway and power generation have a need for clean technologies in order to make the energy transition happen. BeHydro has set itself the goal of providing the solution for these demanding industries.





CMB is a diversified shipping and logistics group based in Antwerp, Belgium. CMB owns and operates more than 90 sea-going ships in dry bulk (Bocimar), container transport (Delphis) and chemical tankers (Bochem). CMB is also involved in Innovation and Development and the development of Low Carbon fuel applications (CMB. TECH) and real estate (Reslea, Maritime Campus Antwerp). CMB has offices in Tokyo, Singapore, Hong Kong, Hamburg and Brentwood.



ABC founded in 1912 and located in Gent, Belgium, is a leading European manufacturer of medium-speed engines in the power range between 600 and 10,400 kW. The company develops and manufactures reliable and innovative medium-speed engines for the energy and transport industry (propulsion engines and generating sets for marine applications and diesel-hydraulic or diesel-electric engines for locomotive traction applications).



REDUCE CO2 EMISSIONS AT SEA, AT LAND INVESTMENT IN R&D

STORAGE OF HYDROGEN

DIFFERENT APPLICATIONS



our MISSION



DEVELOPMENT HYDROGEN COMBUSTION ENGINE 0





CONTACT US

BEH₂YDRO

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AB

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