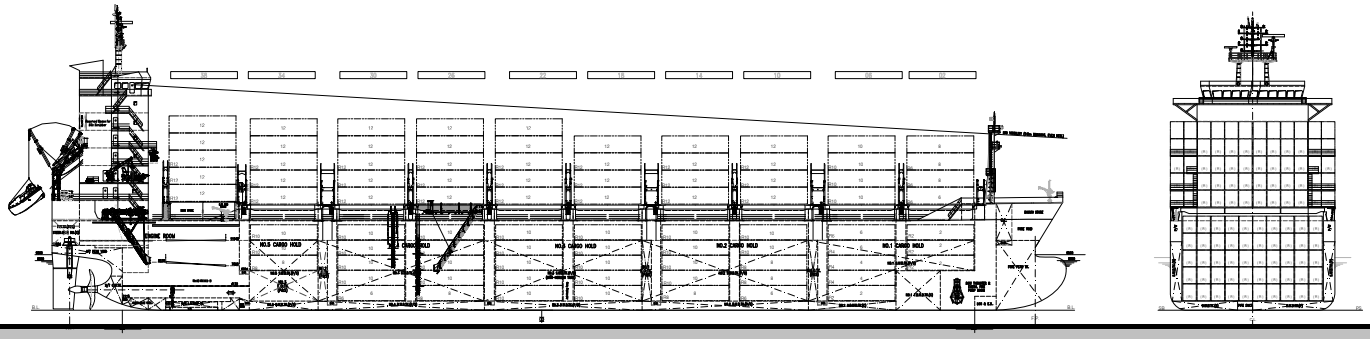
680FEU REEFER CONTAINER VESSEL



GENERAL DESCRIPTION

The vessel shall be designed as an ocean-going single screw diesel engine driven full cellular container ship, with one continuous deck. Machinery space and crew accommodation including navigation bridge located aft. The hull to have raked stem, bulbous bow, transom stern with double bottom and double skin.The cargo hold area is divided into five (5) cargo holds. Ship suitable for carrying dangerous goods. Hold 1 – 5 for class 1.4S, 2.2, 3(23℃≤F.P.≤60℃), 4.1,4.2,4.3 solides, 5.1, 6.1solides, 8 solides and 9 (except goods evolving flammable vapour). All classes of dangerous goods can be carried on deck except above ER. The design to fufill all lastest rules and regulations including EEDI, Fuel oil protection, SOLAS 2009 and EU Directive 2012/33/EC and MSC/Circ.1352 (CSS code).

Principal Particulars

Length over all	185.00	m
Length between perp.	176.00	m
Breadth moulded	30.00	m
Depth moulded	15.30	m
Draught,design	8.50	m
Draught,scantling	9.50	m
Service speed @ Td	19.50	kn
(at 85% MCR with 15% Sea Margin)		
Deadweight at Ts	24,600	t

Class Notation

BV: I +HULL, +MACH, Container Ship, Unrestricted Navigation,SYS-NEQ-1, INWATERSURVEY,BWT, VeriSTAR-HUL LASHING, AUT-UMS, CLEANSHIP

Flag

Convenient

Tank Capacities

HFO & LSHFO	2,300	m^3
MGO	200	m^3
Fresh Water	270	m^3
Ballast Water	12,000	m^3

Cruising Range

12,000 nm

(L.C.V.=9,800kcal/kg)

Complement

Crew of 25+ 6 Suez

Container Capacity

With Max. number of HC containers (IMO visibility)		
On deck (5/6 tiers x 12 rows)	522	FEU
In hold (5 tiers x 10 rows)	340	FEU
Total	862	FEU

*Rows Max. in holds / on hatches:10 / 12 rows

*Tiers Max. in holds / on hatches: 5/ 5 tiers

*Height of cargo hold: 5 x 9'6"

HC Reefer Containers Position:

On deck (3 tiers)	344	FEU
In hold (Water cool)	340	FEU
Total	684	FEU

*connected HC Reefer capacity: 684RFEU x 6.6kW/RFEU

Loadable Reefer Container Capacity

Homo.28MT/FEU at Ts: approx. 684 FEU

(Based on 9'6" , 50% VCG, 100% Consumables)

Main Engine

WinGD	W6X62-B (Low load)
CMCR	14,700 kW x 97 rpm
CSR (85%MCR)	12,495 kW x 91.9 rpm
D.F.O.C. (L.C.V.=10,200kcal/kg)	47.2 t/d

NOx compliance: Tier II or Tier III with HP SCR

Energy Efficiency Solution (option)

Full-balanced rudder with bulb

G/E Exh.Gas Boiler

VFC for Sea Cooling Water pumps and ER fans

AMP space ready

SOx ECA and Tier III Solution

ULSFO & MGO for SOx ECA

or Scrubber ready for SOx ECA (Option)

HP SCR for ME and LP SCR for AE

Cargo Hatch Cover

Type: Steel pontoon, non-sequential

Stack load:120 t for 40ft

Max. panel weight: abt. 40t

Container stowage on deck

2-tier reefer platform

76 mm ISO gap between 20ft container

Deck Machinery

Bow thruster: 1 x 1,100 kW CPP

Steering gear: Electro-Hydraulic rotary-vane type

Mooring winch: Electric type

Deck crane: space ready

Ballast system: 2 x 500 m^3/h x0.35MPa

Heeling pump: 1 x 500 m^3/h x0.17MPa

Ballast water treatment plant:

Total capacity: 500 m^3/h (USCG)

Power supply

Diesel Generator: 3x2,500 kWe+1x1,440kWe

Emer. Generator: 1 x 250 kW

Main transformer: 2 sets

Reefer transformer: 4 sets (option)

Steam Generation

Oil fired section: 1,800 kg/h x 0.7MPa

Exh. gas section: 1,700 kg/h x 0.7Mpa

Navigation Equipment

2-Radar plant, 2-ECDIS, 1-AIS,

2-Gyro compass/1-Auto pliot, 1-Magnetic compass

2-DGPS, 1-BNWAS, 1-VDR

1-Echo sounder, 1-Speed log

1-GMDSS A3, 2-SAT-C / LRIT

May, 2017