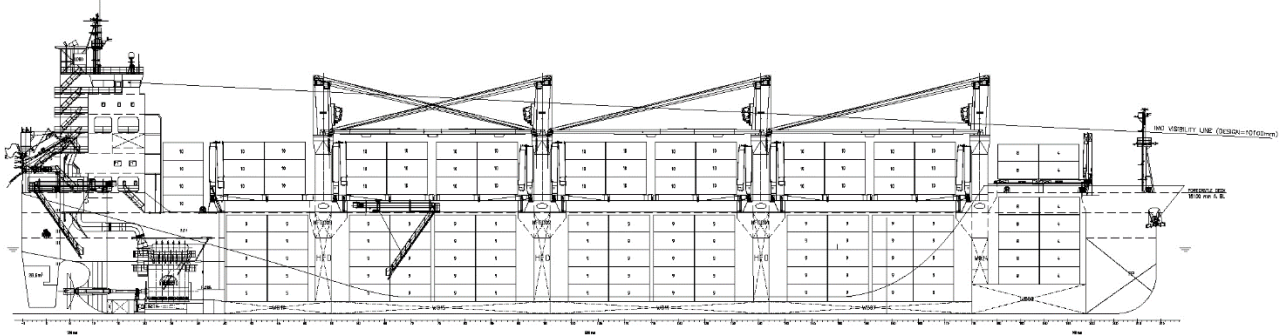




ATLANTIC RO-RO CARRIERS, INC.

95 River Street, 3rd Floor, Hoboken, New Jersey, 07030
Tel: 201.356.2300 Fax: 201.356.2299 e-mail: info@arrcm.com

VESSEL DESCRIPTION



Name: MV “Warnow Sun”

Type: Multi-Purpose Dry Cargo Ship, Equipped for Carriage of Containers,

Registered Owners: SCHIFFFAHRTSKONTOR WARNOW Gmbh & Co KG MS “Warnow Sun”

Ship manager: Marlow Ship Management

Disponent Owner: Atlantic Ro-Ro Carriers, Inc.

Owners P&I: STEAMSHIP MUTUAL

Yard: Zhejiang Ouhua Shipyard China

Built: 2010

Flag: Liberia

Port of Registry: Monrovia

IMO- No.: 9509633

Official – No.: 114048

Call Sign: A8VK9

Classification GL +100 A5 Multi Purpose Dry Cargo Ship, Equipped for Carriage of Containers Solas II-2, Reg.19, Strengthened for Heavy Cargo, G, ESP, IW, NAV-O, Environmental Passport, BMW, DG, DBC, + MC AUT

Vessel Dimensions:

LOA 179.50 m

LBP 169.00 m

Beam 28.00 m

Depth 15.10 m

Draft summer,
freeboard 10.80 m

Draft design 10.00 m

Deadweight:

Summer 33271 mts on draft 10.8 m

Winter 32255 mts on draft 10.6 m

Tropical 34291 mts on draft 11.1 m





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Fresh	34364 mts on draft 11.1 m
Tonnage International	22.863 GT / 10.602 NT
Tonnage Suez	23.356,82 GT / 21.969,70 NT
Tonnage Panama	19.050,00 NT
Container capacity:	20 FT / 40 FT
Deck:	484 / 218
Hold:	674 / 327
Total:	1158 / 545

Vessel's container intake is always subject to vessel's stability / trim / deadweight /permissible stack weights / lashing forces and subject to regulations of visibility.

Cargo Volume: 39,042 cbm (without Tween Decks)
36,522 cbm (with Tween Decks)

Main engine: Licencor MAN B&W, Copenhagen
Licensee/Maker STX, Korea
Type 1 x 6S50 MC-C7
Output MCR 8.800 KW

Diesel generators: Maker MAN B&W
Type 2 x 6L 16/24
Output 1 x 502 kWel at 1.000 rpm 50 hz
Type 1 x 5L 16/24
Output 1 x 418 kWel at 1.000 rpm 50 hz

Cranes Maker MacGregor-Hägglunds
Number + Type 4 electro hydraulic single deck crane
SWL 60 mto
Outreach SWL 60mts - 20 mtrs
Outreach SWL 50mts - 24 mtrs
Outreach SWL 40mts - 30 mtrs

Combinable above hatch 2/3/4 to 110 mts by means of a traverse beam location center, with offset to port side
In case cranes are working constantly for 24 hours owners have the option to carry out maintenance work thereafter.

Cargo Holds:

Hold	Cubic w/o TWD	cubic with TWD in lower position	Hatchsize (L X B)
1	3.255	3.242	12.6m x 20.04m / 10.19m
2	10.551	9.733	25.6m x 24.4m
3	10.551	9.733	25.6m x 24.4m
4	10.551	9.733	25.6m x 24.4m
5	4.155	4.155	12.8m x 24.4m
Total	39.063	36.609	





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Tanktop sizes:

	Tweendeck in holds 2/3/4	Bottom Sizes (L x B)
hold 1:	227 sqm	7.8/6.9 m x 20.1/10.2 m
hold 2:	742 sqm	30.4 m x 24.4 m
hold 3:	742 sqm	30.4 m x 24.4 m
hold 4:	742 sqm	30.4 m x 24.4 m
hold 5:	197 sqm + 135 sqm (monkey rocks)	13.6 m x 14.5 m (24.4 m)
<hr/>		
Total:	2,650 sqm + 135 sqm (MR)	
	= 2,785 sqm tank	

Clear height in Hold: 14,85 meters

Tanktop strength 20 mts/sqm
except on monkey rocks in hold 5 where it is 12 mts/sqm and 4 mts/sqm on racks when they are stored in hold 5

Hatch covers:

hydraulic folding type hatchcovers covers
always one panel folding upright forward and aft Hatch Cover Sizes (L x B)

hold 1	206 sqm	6.9/6.1 m x 20.5/10.6 m
hold 2-4	2.067 sqm	29.1 m x 26.5 m (each)
hold 5	352 sqm	13.3 m x 26.5 m
Total:	2.625 sqm	

fixed container fittings flush type
container stack weights: 60 mts per 20ft stack on hatches 2-5 /
28 mts on hatch 1
90 mts per 40ft stack on hatches 2-5 /
56 mts on hatch 1
70 mts per 20ft stack on deck in front of wheelhouse

Hatch cover strength 4 mts/sqm

Tweendeck

Tweendeck in holds 2/3/4

Tweendeck strength 4 mts/sqm
Tweendeck height 2 times , 2 layers or 3 layers of 8'6" containers
Tween deck Principle TD panels outside and aft resting on titable foundations at side wall
TD panels inside (at cl) resting on movable supporting racks
One, two, three or all five TD panels continuously laid out from aft to fwd.
a. m. TD panels laid out one or both sides
TD supporting racks to be free of horizontal lashing and cargo forces
Holds equipped with lashing eyes to assist in withdrawing cargo from racks

Tweendeckpanels	Panel Weight	23 mt unitweight
	Panel Volume	63 cbm per unit





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Tween Deck Racks in 2 x 8.5' tiers height or altern.	Rack Weight Rack Volume	3,7 mts unitweight 187 cbm per hold with 10 racks installed
Tween Deck Racks in 3 x 8.5' tiers height	Rack Weight Rack Volume	3,7 mts unitweight 269 cbm per hold with 15 racks installed

Navigation/ Fitted with all modern nautical aids /satellite navigation /
Communication: weather-chart recorder / Inmarsatsystem / GMDSS / SAT F

All details and figures are about, except fuel specifications, and are believed to be correct

