

# ARV 2

## PRINCIPAL DIMENSIONS

Length overall	149.30 m
Length between p.p	131.60 m
Breadth moulded	29.50 m
Depth mid to 3rd deck (main deck)	7.80 m
Depth mid to 5th deck	13.40 m
Depth mid to 7th deck	18.80 m
Depth mid to 9th deck	24.30 m
Depth mid to 11th deck (upper deck)	29.60 m
Draught max	6.10 m
Deadweight	2,970 tons
Gross tonnage	25,745
Net tonnage	11,685
Speed	18.50 knots

## Ramp and cargo handling equipment

Max free height deck 3	4.4 m
Max free height deck 5	4.1 m

## Heights with mezzanine deck stowed in down position

Free Height deck 3	2.4 m
Free Height deck 4	1.9 m
Free Height deck 5	2.2 m
Free Height deck 6	1.9 m
Bow ramp width	7.5 m
Port stern ramp width	3.5 m
Centre stern ramp width	6.4 m
SB stern ramp width	6.4 m

## CAPACITIES

### Tank capacities

Diesel oil	83 tons
Fuel oil	343 tons
Lubricating oil	64 tons
Fresh water tanks	440 tons
Water ballast	1,596 tons

### Trailer and car capacity

420 passenger cars      645 trailer metres

### Deck loadings

Deck 3, maximum axle load 8.5 t      Deck 4, maximum axle load 1.0 t.  
Deck 5, maximum axle load 8.5 t      Deck 6, maximum axle load 1.0 t.

### Lifts

Two passenger lifts for 10 persons each.      Two provisions lifts.

### Passenger cert

(incl crew 138)      1692 persons

### Passenger cabins

Total: 496 cabins      1122 berths

### Crew and officer cabins

	cabins	cabins
	1 berth	2 berth
9th deck	44	39
Total berths	44	78

### Seating indication

5th deck	Reclining seats	291
6th deck	Cinema	100
7th deck	Molly Malone Lounge	419
	Reading Room	40
	Monet Lounge	40
	Arcade	16
	Coffee Dock	100
	Casino	17
8th deck	Burren Buttery Restaurant	344
	Renoir Restaurant	150

## MACHINERY

### Main engines

Four 12V 32A Wärtsilä Vasa engines, four stroke, turbo-charged, bore 320 mm, stroke 350 mm. Output: 4 x 5,220 bhp at 800 rpm. Fuel consumption approx. 218 g/kWh. Heat value 9,700 kcal/kg.

### Reduction gears

Two engines to be coupled to each propeller via an elastic disconnectable air operated coupling, Lohmann & Stolterfoht Pneumaflex KAA 300, and a reduction gear, Lohmann & Stolterfoht Pneumaflex GVA 160050.

### Propellers

Two KaMeWa hydraulically operated controllable pitch propellers 132 S 2/4. Prop diam.: 4,800 mm. MCR 7.68 MW each at 130 rpm.

### Bow thrusters

Two KaMeWa steering propellers at fore ship 2000/SAS-CP. 0.736 MW each. Prop. diam.: 2,000 mm

## AUXILIARY ENGINES

Three Wärtsilä Vasa 4 R 32, four stroke, turbo-charged engines. Each engine is connected to an alternator with output 1,100 kW at 750 rpm. Fuel consumption approx. 218 g/kWh. Heat Value 9,700 kcal/kg.

### Generators

Two shaft driven generators each with an output 1,100 kW

### Boilers

Two oil fired boilers, Sunrod, capacity 4 tons/h, maximum operating pressure 7 bar. Two exhaust gas heated steam boilers, capacities: 2,400 and 1,000 kg/h respectively, pressure 7 bar (not in use).

### Stabilizers

Sperry Gyrofin, 2 x 6.0m'

## DECK EQUIPMENT

### Steering gears

Porsgrunn Verft A/S electro-hydraulic steering gear type 350-30.

### Mooring winches

Two aut. mooring winches type MF-160. Make: Norwinch

### Windlasses

Two combined anchor windlasses and mooring winches type AMF 160-57/62. Make: Norwinch.

### Anchors

Two stockless bower anchors weight 6,240kg each. Type Spek. Anchor chain, length 577.6m, weight 46.57 tons.

### Lifesaving appliances

Four motor lifeboats for 84 persons each. Make: Fiskars.

Two rescue boats for 22 persons each. Make: Fiskars.

One FRB for 6 persons. Make: Fassmer.

Seventy life rafts for 25 persons each.

Lifejackets for 1783 adults and 202 for children.

### Fire extinguishing

One CO2 fire extinguishing system, H. Larsen, for protection of main engine room, auxiliary engine room, separator room, control room and emergency generator room. One dry powder fire extinguishing plant, Svenska Tempus AB, for the boilers. One manual water spray plant for car decks. Make: Marin and Industri Drencher.

## NAUTICAL EQUIPMENT

### Gyro compass

Sperry MK-37

### Standard compass

J.C. Krohn + son 390/72

### Auto pilot

Sperry

### Radars

One Decca ARPA S 2690 BT  
Furuno ARPA 28"

### Position-Fixing device

Two GPS MAGNAVOX + JMC  
Furuno NAVTEK NX-500

### Echo sounder

Simrad type EN + IC 4

### Radio station

SES Discall 2000  
VHF DSC Sailor 2042  
Two RT 2048 VHF  
One RT 144C VHF  
MF/HF HC4500 SAILOR

### Engine telegraph

Carl Th. Malling

### Whistle

One Kockums, type MKT 150/130  
One Kockums, type MKT 150/165

### Log

Raytheon Doppler Sonar Navigator DSN-450

## VENTILATION

### Car deck

Ventilated by twelve reversible axial fans. Total capacity 1,160,000m<sup>3</sup>/h. Eight centrifugal fans (Dirivent system) total capacity 23,000 m<sup>3</sup>/h.

### Passenger, officer and crew cabins

One SF-Duovent system with a high velocity dualduct air flow system. Total capacity 70,000m<sup>3</sup>/h.

### Public rooms and galley

One low velocity single duct air flow system. Total capacity 160,000 m<sup>3</sup>/h. The system is equipped with thermostatic control.

### Air conditioning

Two STAL refrigeration screw compressor units.  
Two steam heat exchangers.      Flakt plant.

## CERTIFICATE AND CLASS

International Load Line Certificate.  
International Tonnage Certificate.      GMDSS A2 Certificate.  
Passenger Ship Safety Certificate.      Passenger Certificate.  
Stockholm Compliance 4.0m Wave HT.      I.O.P.P. Certificate.

### Class

Bureau Veritas