

## MV PAC ALTAIR

### Description

Single screw, self-sustaining, multi-purpose container vessel, with double skin, box shaped cargo holds and a double tier of flush removable 'tween decks.

The vessel is non-cellular, but fully fitted for the carriage of palletized natural rubber, steel containers, grain or other cargoes in bulk and other unitized general cargoes in bags, bulk, breakbulk etc. The vessel is fitted for unrestricted service and for unmanned machinery spaces.

### Principal Particulars

Type : Multi-purpose, triple deck, container/bulk carrier  
Owner : Altair Maritime Limited  
Disp. Owner : Paccship (UK) Ltd.  
Managers : Paccship (UK) Ltd.  
Builders : Kouan Shipyard, China  
Hull No. : WM 25000-1  
Built : Mar-03  
Class : American Bureau of Shipping  
Notation : +A1(E), Container & Bulk Carrier, SH, +AMS, +ACCU  
Official No. : 389860  
IMO No. : 9265902  
Port of Registry : SINGAPORE  
Call Sign : S6DU5  
MMSI No. : 564 864 000  
Inmarsat-C : 456 486 240  
Inmarsat-B : voice – 356 486 440  
: fax – 356 486 450  
: data – 356 486 460  
: telex – 356 486 470  
Deadweight : see table below  
TEU : 1,364 TEU (On deck: 760 + In hold: 604)  
FEU : 649 (On deck: 355 + In hold: 294)

### Principal Dimensions

LOA : 178.8m  
LBP : 169.4m  
Beam Moulded : 27.20m  
Depth Moulded : 14.20m  
Summer Draft : 10.427m  
GRT : 20471  
NRT : 10630

Mark	Deadweight	Draft	Displacement	Freeboard
Summer	27,692	10.427m	38,046 mt	3.803m
Tropical	28,604	10.644m	38,958 mt	3.586m
Winter	26,784	10.210m	37,138 mt	4.020m
Tropical (FW)	28,604	10.872m	38,958 mt	3.358m
Summer (FW)	27,692	10.655m	38,046 mt	3.575m
Lightship:	10,354 mt	FWA: 228 mm	TPC at summer draft : 41.95	

Airdraft on summer marks (Even keel) : 36.37 metres

## **Machinery**

Main Engine : Mitsubishi 6UEC50LSII  
Engine Power : MCR 8,250kW @ 124 rpm / 11,217 hp  
Generators : 3 Daihatsu x 700kw  
Bow Thruster : 1,000 kW / 1,340 hp thrust, electrically driven

## **Cargo cranes**

No. 1 : 1 x 40mt SWL @ 26m  
No. 2A : 1 x 45 mt SWL @ 22m, 37 mt @ 28m, 30 mt @ 31m  
No. 2B : 1 x 45 mt SWL @ 22m, 37 mt @ 28m, 30 mt @ 31m  
Cranes 2A & 2B can be Geminied to lift 70mt/85mt @ 28m/22m resp. using a Twin Beam.  
No. 3 : 1 x 40mt SWL @ 26m  
Using a Team Beam which is warehoused at selective ports, loads of upto 120 mt can be lifted using 3 cranes.

Type : Electro-Hydraulic

## **Speed & Consumption**

15.25 knots on about 30.5 mt IFO 380cSt / day (M/E only) basis design draft, 85% MCR and 15% sea Margin

A/E Consumption:

At sea : About 2.8 mt IFO 380cSt / day (on 1 generator only)  
In port : About 3.5 / 2.0 mt IFO 380cSt / day with / without ship's cranes operating

Minor quantities of MDO are consumed when starting / stopping the diesel generators and when manoeuvring in confined waters / canals / rivers and during mooring operations (about 0.30 mt)

Min. bunker quality specification:

IFO 380 : ISO 8217(E) - RMG 35  
MDO : ISO 8127(E) - DMC

Endurance : About 46 days

Range : About 16,560 nm

## Cargo Holds

Grain Capacity : 37,868 cbm (excluding no.1 cargo hold)

Holds/Hatches : 5 Holds / 9 Hatches

Ventilation : Mechanical

Ventilation rate : 15 air changes/hour

Features : Tween deck pontoon covers removable and inter-changeable for Nos. 2 to 5.

: The covers are stowed on deck and in No. 1 cargo hold, converting Nos. 2 to 5 cargo holds into single boxed shaped holds.

: Certified for carriage of grain and bulk cargoes with untrimmed ends and in alternate holds.

: Certified for carriage of certain IMDG dangerous goods

## Hatch Covers

Upper Deck : Hydraulically operated folding pairs (MacGregor)

Tween Decks : Pontoon lift-away type which may be operated with ship's cranes. All pontoon covers, except for Hold No. 1, are interchangeable.

## Hold Dimensions (L X B x D (m))

No.1	UTD	: 11.1 x 9.75 x 5.5
	LTD	: 11.1 x 9.75 x 4.6
	LH	: 11.1 x 9.75 x 4.6
No.2	UTD	: 29.9 x 18.2/23.6 x 4.6
	LTD	: 29.9 x 18.2/23.6 x 6.6
	LH	: 29.9 x 18.2/23.6/13.2 x 4.7
No.3	UTD	: 32.1 x 23.6 x 4.8
	LTD	: 32.1 x 23.6 x 3.6
	LH	: 32.1 x 23.6 x 4.7
No.4	UTD	: 31.2 x 23.6 x 4.8
	LTD	: 31.2 x 23.6 x 3.6
	LH	: 31.2 x 23.6 x 4.7
No.5	UTD	: 28.0 x 23.6 x 4.80
	LTD	: 28.0 x 23.6 x 3.60
	LH	: 15.1 x 13.2 / 23.4 x 4.7 (fwd: frame 58)
	LH	: 21.4 x 8.6 /18.3 x 4.7 (aft: frame 49)

### Hatch Openings (L X B (mtrs))

No.1 : 7.70 x 11.00  
No.2 (for'd) : 12.87 x 8.46  
No.2 (aft) : 12.87 x 10.9  
Nos. 3 - 5 : 25.64 x 1.09 (P & S)

### Container intake (Deck + Hold = Total (TEU))

### (Deck + Hold = Total (FEU))

No.1	: 10 + 0 = 10		
No.2	: 106 + 156 = 262	No. 2	: 51 + 76 = 127
No.3	: 208 + 160 = 368	No. 3	: 88 + 80 = 168
No.4	: 208 + 160 = 368	No. 4	: 104 + 80 = 184
No.5	: 224 + 128 = 352	No. 5	: 112 + 58 = 170
Bay 37	: 4 = 4		
Total	: 760 + 604 = 1,364	Total	: 355 + 294 = 649

50 reefer containers can be stowed; the vessel's working voltage is 440v.

### Stack Weights

#### Containers (TEU / FEU(mt))

##### On Deck:

No.1 : 30 / 0  
No.2 : 40 / 50  
Nos.3 to 5 : 40 / 80

##### In Holds:

5 tiers : 100 / 150  
6 tiers : 120 / 180

#### Uniform loading (mt/psm)

Hatch Covers : 1.75  
Tweendeck : 3.5 (with 3.5mt FLT)  
Lower hold : 20.0

**Description provided good faith and without guarantee**