

A blast-rated Temporary Refuge (TR) suitable for offshore operations. Consisting of an air-tight strengthened 30ft A60 container with air-supply for over 2 hours, the TR offers a safe location for personnel in the event of fire, explosion, or a release of toxic and explosive gases, notably H₂S and hydrocarbons.



PARTICULARS

Temporary Refuge Type Classification Society Bureau Veritas

Notation BV - Offshore Container DNV 2.7-1: 2017/ ISO 10855-Design Reference

1:2-18

Design Approval BVCT2180007/O Container Number TI 2106006344

Builder TLS Offshore Containers,

Singapore

PERFORMANCE

Endurance 2hrs with 20POB

Blast Rating 01 har

Fire-Proofing A60 at all boundaries

B15 at air-lock

Purafil PPU-500 ducted type. **HVAC**

> External Ventilation and AC shutdown in toxic gas event.

Constant Cabin Overpressure 50Pa > ambient Constant Airlock Overpressure 25Pa > ambient

Main Power From deck generators in

lounge mode

Rating All external electrical

> equipment required to operate in an emergency

Zone 1 rated.

Internal Temperature **Ambient Temperature** Documentation

+20°C to +25°C -20°C to +40°C All safe operational procedures in place

PRINCIPLE PARAMETERS

9.14m Length Width 2.44m Height 2.90m

Weight 12,000kg tare and 7,200kg

max payload

Internal Floor Area 18.73m²

Deck Area Occupied TR container 22.2m²

Air cylinder box 3.9m²

CAPACITIES

Bottled Air 24 of 8m³ cylinders for >2hr

closed air supply system &

airlock shower

Emergency Power Capacity for power supply

for >2hrs

Battery: 16 of 12V 65Ah deep cycle dry cells UPS: HP Enterprise 6 20 persons at 0.8m² per

POB

person

Boarding Airlock capacity to allow

access of 20POB within

15min period



EQUIPMENT

PLC

On Board Control Panel

MASK VM-E30-CP-001

Monitoring of all alarms and

air-lock

Fire & gas detectors

Fully self-contained with audible and visual alarms in following arrangement:

External:

- 2 x CH₄ detectors

2 x H₂S detectors

Inside airlock:

1x CH₄ detector

1x H₂S detector

1x differential pressure

sensor

Inside main cabin:

- 1x CH₄ detector

- 1x H₂S detector

- 1 x CO₂ monitoring sensor

- 1 x O₂ Monitoring sensor

- 1x Differential pressure sensor GE-923-Ex

- 1x Explosion-proof smoke detector AW-

EXD101DC24V 1 x Explosive-proof

heat detector AW-EXD102DC24V

Fire fighting 2 x 5 kg powder

extinguishers

Air Scrubber Hyper Flow CO₂ Scrubber

SMP CRTS.

DL-TB1600A 2,000W wall Heater

heater

Air-Conditioning Unit BKT-5.0 External unit ATEX

type

Refrigeration rated power

1,612W

Maximum input power

2,800W

COLTRI Super Silent TPS 345 Compressor

7.5KW 400V 50 Hz 3 Phase 345 bars max pressure For charging cylinders /

SCBA units

Internal Lighting BAD310-2×20W - 1 unit

BAD310-2×20W-J - 2 units

with battery backup

External Lighting Deck lighting

with battery backup

Toilet Chemical cartridge type

COMMUNICATION EQUIPMENT

3 of Handheld VHF radios Radios

ICOM IC-M88

Ex-proof notation 2EXic IIA

T6 X

CCTV BTS-1Q Infrared explosion-

> proof high-speed ball series ATEX type II 2GD Ex db IIC T6 Gb Ex tb IIIC T85°C

IP65

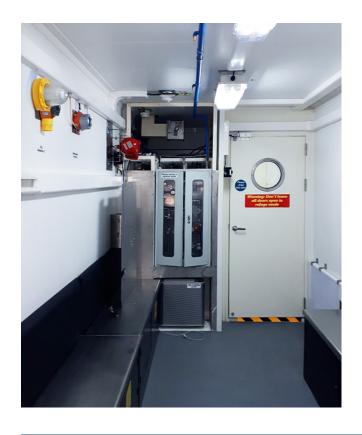
Ta=-25°C~+60°C













GENERAL PLAN

