

# 12 MAN 300 MSW RATED PORTABLE SATURATION DIVING SYSTEM

## **Fire Fighting System**

Deck Chamber pressurised internal water deluge system.

## **Communication System**

Aiphone communications system, SAT & Dive Control, MVs,  
Chamber Medlocks.

## **Chamber Skid / LARS**

TUP to Bell Lock LARS skid base incorporating; "A" Frame,  
Bell Deck Trolley, Bell Catcher, Bell, Clump and Umbilical Winches,  
LARS Remote Controls & Dual Hydraulic Power Packs.

## **Bell LARS**

Dual Electric Hydraulic Power Packs, approx 320 lts / min @ 200  
bar maximum. LARS Electro Hydraulic Control Panel in ABS  
Approved Dive Control Room. Depth monitoring and umbilical  
supplied emergency breathing apparatus. 18 mt SWL "A" Frame,  
Bell Deck Trolley and Bell Catcher. 1.9 ton Clump Weight  
with swim line reel and tool box. 2.5 mt Rated MBU Winch for 350  
metres of Umbilical, with Constant Tension facility to "follow"  
the Bell Winch. 12 mt Rated Man Riding Main Bell Winch.  
8 mt Rated Man Riding Clump Weight Winch.

## **2 x 2,3 mtr ID – 6 man "ALPHA", inclusive off in each unit:**

### **Main Lock (Living Chamber) and Entry Lock**

IMCA/ABS compliant PVHO design approved to comply with the  
requirement of ASME section VIII, Div 1 & PVHO-1-2007 complete  
with all equipment provided, according to ABS / IMCA rules.

## **1 x 2,3 mtr ID – 3 man "BRAVO", inclusive of:**

### **Main Lock (Living Chamber) and Entry Lock**

IMCA/ABS compliant PVHO design approved to comply with the  
requirement of ASME section VIII, Div 1 & PVHO-1-2007 complete  
with all equipment provided, according to ABS / IMCA rules.

## **DDC / TUP SYSTEM, inclusive of:**

### **Sanitary System**

Sewage system to pipe sewage from Sanitary Discharge Tanks to  
one atmospheric Sanitary Holding Tank for discharge into Ship's  
sewage system. Grey water handling system to pipe water from  
shower / wash basin and all other Deck Chamber bilges to  
connect with Ship's sewage system.

### **1 x 5 m<sup>3</sup> Negatively Buoyant 3-Diver Bell**

IMCA / ABS compliant PVHO design approved to comply with the requirement of ASME section VIII, Div 1 & PVHO-1-2007 complete with all equipment provided, according to ABS / IMCA rules.

### **Dive Control Room Module**

ABS Approved "Deck House" Dive Control Room Module complete with all necessary equipment for survey lock out divers, bell internal, launch and recovery system, divers' gas reclaim system, monitoring and communication.

### **Sat Control Room Module**

ABS Approved "Deck House" SAT Control Room Module complete with all deck decompression chambers survey equipment at storage depth, environmental control, monitoring and communications in according to ABS / IMCA rules.

### **Machinery Van No. 1**

ABS Approved "Deck House" Machinery Van, fully insulated to A60 fire rating, complete with: Gas Transfer Compressor, Gas Mixer Model MG50-2MEM+GB A (Gas Flow capacity 40 Nm<sup>3</sup> / hour) and LESGAZ 2 – Diver Reclaim System Model LME-RC-02 (6 x Haskel Pump Unit).

### **Machinery Van No. 2**

ABS Approved "Deck House" Machinery Van, fully insulated to A60 fire rating, complete with: workbenches, tools and spare parts for maintenance of the system.

### **Machinery Van No. 3**

ABS Approved "Deck House" Machinery Van, fully insulated to A60 fire rating, complete with: 5 x Hyperbaric Environmental Control Units and 2 x Potable Water Units

### **Machinery Van No. 4**

ABS Approved "Deck House" Machinery Van, fully insulated to A60 fire rating, complete with: 2 x 110 kW LARS Twin Pump Electro-Hydraulic Power Units HPUs inclusive of 4 x Dual pump star delta starters

### **Machinery Van No. 5**

ABS Approved "Deck House" Machinery Van fully insulated to A60 fire rating, split into 2 rooms by partition bulkhead.

### **Machinery Room complete with:**

2 x Electric Bell Divers Hot Water Unit – Model LME-HWE-03 (156 kW) approved units and DDC / TUP Internal Fire Fighting System Water & Gas Tank, Skid Assembly.

### **Electrical Room complete with:**

3 Ph Main Generator Power input, isolation & distribution. 3 Ph Emergency Generator Power input, isolation & distribution. Main to Emergency Power Changeover. 1 Ph isolation & distribution. Transformers.

### **15 man HRC**

IMCA / ABS compliant PVHO design approved to comply with the requirements of ASME section VIII, Div 1 & PVHO-1-2007 complete with all that's necessary for 15 divers survival, according with ABS / IMCA rules.

### **HRC inclusive of:**

Davits with hydraulic tilt actuation to compensate for 20 degree list. Emergency, independent, diesel hydraulic power unit

### **HRC Flyaway Package**

DNV approved offshore lift container containing: HECU-05 Chamber Conditioning unit. 2 x 25 m Emergency Umbilical

### **Ancillary Items**

System Asset Register  
Operating Manual for the System  
Planned Maintenance System (PMS)