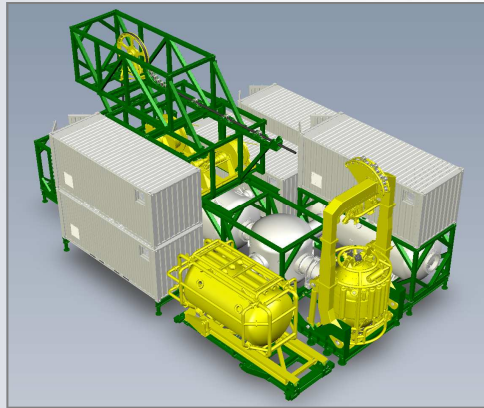


# "CMC 300" 12-man Mobile Saturation Diving System



## PRESENTATION

Certification	DNV
Operating depth	300 msw
System volume	80 m <sup>3</sup>
Outer operating temperature	-10 °C to +50 °C
Max. number of divers	12

## DECK DECOMPRESSION CHAMBERS AND TRANSFER COMPARTMENTS

Main Chamber (24.40 m <sup>3</sup> )	6 men
Additional Chamber - Main Lock (14.66 m <sup>3</sup> )	3 men
Additional Chamber - Entry Lock (6.23 m <sup>3</sup> )	-
Hyperbaric Evacuation Unit (15 m <sup>3</sup> )	3 (normal) / 12 (emerg)
TUP (10.90 m <sup>3</sup> )	-

## DIVING BELL

Capacity	6.20 m <sup>3</sup> - 3 men
Max. observation / operating depth	300 msw
Weight of bell in air	98.1 kN
Autonomy with emergency source	24 h



## HEU

Navigational aids	Radar reflector, radio beacon, strobe light
Weight fully equipped	163 kN

## LIFE SUPPORT SYSTEM

### SAT CONTROL

Gas Management Panel	
Control and Monitoring Panel	
SAT Electrical Control Panel	
DDC Rack Analysis	

### DIVE CONTROL

Dive Control Panel	
Handling Control Panel	
Dive Electrical Control and Communication Panel	



## WORKSHOP

Divers Sea Water Heater	Flow = 45 l/min - Autonomy > 20 min
Sanitary System (in Additional Chamber - Entry Lock and TUP)	

## ENVIRONMENTAL CONDITIONING UNITS

Cooling of chambers	2 Chillers 36 kW (Normal & Emerg. mode)
Heating of chambers	2 Heaters 60 kW (Normal & Emerg. mode)

## DIVER GAS RECLAIM SYSTEM

Flow rate per diver at 300 msw	Nominal = 35 l/min - Max. = 90 l/min
Gas Booster	37 kW - 200 bar

## LAUNCH & RECOVERY SYSTEMS

### HYDRAULIC POWER UNIT

2 moto-pumps of 92 kW each

### DIVING BELL HANDLING SYSTEM

Working load / Design load	100 kN / 220 kN
Type of secondary lifting	2 guide winches
Emergency means of recovery	Buoyant ascent

### HEU LAUNCHING SYSTEM

"Free Fall"

## ELECTRICAL INSTALLATIONS

Main switchboard connected to ship normal power	
Emergency switchboard connected to ship emergency source of power	

## FIRE PROTECTION

Type of detection / alarm	Smoke fire detectors & Alarm central unit
Type of fire extinction	Fixed, manually actuated fire extinguishing

## SPACE REQUIREMENT ON DECK

Length	17.50 m
Width	14.90 m

## REQUIRED SERVICES

D.S. Main power supply	440 V - 60 Hz or 380 V - 50 Hz, 500 kW
D.S. Emergency power supply	440 V - 60 Hz or 380 V - 50 Hz, 250 kW
Fresh cold water (Sanitary, Divers heater, Chiller & Heater Units) (Fire extinguishing inner area)	3 bar - 75 l/min 13 bar - > 25 l/min
Fresh hot water 60°C (Sanitary)	3 bar - 10 l/min
Seawater (Divers heater and Chiller Units) (Fire extinguishing outer area)	3 bar - 60 l/min 10 bar - > 630 l/min
Service air (Divers heater) (Working air)	3 bar - > 50 l/min < 15 bar - > 340 l/min

## LIFE SUPPORT PACKAGE

10' container equipped with air conditioning and safety components	
Control / Monitoring panel	Gas, Water, Electricity supplies
Heater	27 kW
Chiller	15 kW
On Rescue vessel including following easements:	
Power supply	400 V - 50 Hz, 50 kW
Gas storage	Breathing gases and oxygen
Fresh water	P = 3 bar
Sea water	3 < P < 10 bar - > 66 l/min

## MOBILISATION AND DEMOBILISATION

Mobilisation duration	10 days
Modules connection	Quick connectors

## TRANSPORTATION

Containers and structures	20 feet
Main Chamber & TUP in structure	W = 2.63 m, H = 3.00 m, L = 9.30 m
Diving Bell	Ø = 2.50 m, H = 3.50 m



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