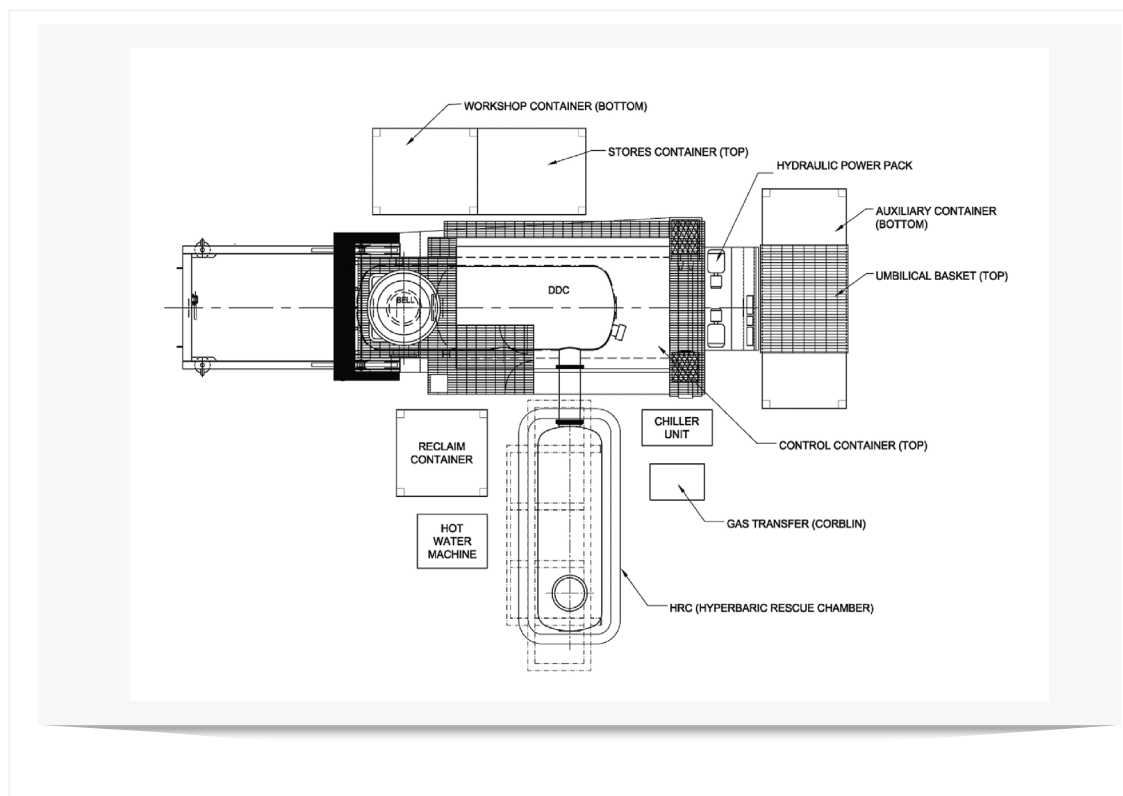




## SATURATION DIVING SYSTEM

# SAT III

The CCC (Underwater Engineering) SAT III Saturation Diving System is designed for operations down to a maximum depth of 180 m. The system can accommodate 6 divers in order to achieve 24 hour back-to-back diving operations. SAT III comes with its own Hyperbaric Rescue Chamber (HRC), designed to evacuate divers in saturation should the marine spread be at risk from fire or sinking. Being composed of modules, SAT III can support a wide range of subsea operations, ranging from heavy to light saturation.



## SYSTEM HIGHLIGHTS

- ▲ Maximum working depth of 180 m.
- ▲ Capacity to hold six men in saturation.
- ▲ System includes a Hyperbaric Rescue Chamber (HRC).
- ▲ System can be configured in a variety of ways (i.e. in line, side by side or at right angles).
- ▲ Diving bell can accommodate two divers.
- ▲ A-Frame launch system for the diving bell.
- ▲ Area occupied by the SAT system is approximately 196 m<sup>2</sup> (inclusive of all auxiliary equipment).

## SYSTEM SPECIFICATIONS

### DDC SPECIFICATIONS

Year of Manufacture:	1976
Working Pressure:	20 Bar
Over Test Pressure:	22 Bar
Internal Diameter:	2200 mm
Volume:	21.5 m <sup>3</sup>

### DIVING BELL

Year of Manufacture:	1982
Design Depth:	180 meters
Working Pressure:	18 Bar
Over Test Pressure:	19.8 Bar
Personnel Capacity:	2 divers
Volume:	3.5 m <sup>3</sup>
Length:	2185 mm
External Diameter:	1671 mm

### BELL LAUNCH AND RECOVERY SYSTEM

Type:	A-Frame
Winch Capacity:	7.5 Tons
Wire O/D:	26 mm

### BELL MAIN UMBILICAL

Length:	225 m
Umbilical O/D:	86 mm

### UMBILICAL SERVICES

4 x 1/4" Pneumo Lines
2 x 1/2" Gas Supply Lines
1 x 3/4" Reclaim Line
1 x 3/4" Hot Water Line
2 x Mini TV Cables
2 x Power Cables
2 x 14 Core Communication Cables

### HYPERBARIC RESCUE CHAMBER

Year of Manufacture:	1983
Max Working Pressure:	20 Bar
Over Test Pressure:	22 Bar
Personnel Capacity:	8 divers
Life Support:	Independent
Volume:	11.3 m <sup>3</sup>

### HRC LAUNCH AND RECOVERY SYSTEM

Crane Launch
Winch Launch
Float Out
Tow Out Using Independent Vessel

### LIFE SUPPORT / ENVIRONMENT SYSTEM

Oxygen Analyzers
Carbon Dioxide Analyzers
Hydrocarbon Dioxide Analyzers
Chillers
Scrubbers
Sanitary Facilities
Freshwater Supply & Food Supply
Illumination
Noise Insulation

### SYSTEM POWER REQUIREMENTS

440V~480V, 3Φ, 50/60 Hz, 200 kW

### EMERGENCY POWER REQUIREMENTS FOR BELL RECOVERY

440V~480V, 3Φ, 50/60 Hz, 111 kW

### DIVING SYSTEM PHYSICAL PROPERTIES

DDC c/w Frame & Winch:	10.5 x 4.9 x 4.3 m, 55 Tons
2 Men Bell:	2.9 x 2.9 x 2.8 m, 5 Tons
Control Room:	6.1 x 2.9 x 2.8 m, 11 Tons
Hot Water Machine:	2.0 x 1.5 x 2.4 m, 2 Tons
Reclaim Container:	2.6 x 2.4 x 2.4 m, 3.5 Tons
Umbilical Basket:	3 x 2.6 x 2.2 m, 3.5 Tons
Hydraulic Power Pack:	1.5 x 2.9 x 2.1 m, 4.3 Tons
Regeneration Container:	6.1 x 2.4 x 2.4 m, 9.5 Tons
Chiller Unit:	2.0 x 1.0 x 2.0 m, 2.5 Tons
Gas Transfer (Corblin):	1.6 x 1.0 x 1.6 m, 0.8 Tons
Workshop Container:	6.1 x 2.4 x 2.4 m, 7 Tons
Stores Container:	3.0 x 2.4 x 2.4 m, 7 Tons
HRC:	6.7 x 3.0 x 2.6 m, 13.2 Tons