



World leaders in diving equipment technology

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HEAD OFFICE
Enterprise Drive
Westhill
Aberdeen
AB32 6TQ
T: +44 (0)1224 740145
F: +44 (0)1224 740172

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TC 650 Transport Chamber

The TC 650 Transport Chamber is a light-weight duplex stainless steel one-person transport chamber, or hyperbaric stretcher, designed to support detached military diving operations. It provides easily-mobilised on-site emergency recompression treatments and transport of divers under pressure to larger treatment chambers. With a diver under pressure, it may be hand-carried by six or eight people and is easily transported by boat, helicopter, small fixed wing aircraft or light pick-up truck. An optional non-magnetic version, the TC 650 - MCM Transport Chamber, is also available for use aboard mine countermeasures vessels.

Configuration

A rail-mounted stainless steel stretcher with fire-resistant head cushion is provided for the diver, which allows two people to load or unload an immobilised diver with ease. Two large diameter viewports are provided for observing the diver's head and torso. A male NATO bayonet flange is provided at the manway end of the TC 650 for transferring the diver under pressure into a larger treatment chamber.

Optional onboard air and oxygen supplies are listed in the Options section overleaf and are recommended for when conducting transport and transfer-under-pressure operations. Connection points for external supplies are provided as standard. Its low internal volume also allows the TC 650 to be operated from conventional SCUBA cylinders. A standard safety feature is an automatic ventilation system which reduces oxygen

and carbon dioxide build-up, while a sampling system allows the chamber atmosphere to be monitored for oxygen and carbon dioxide content.

Standard Equipment

- NATO bayonet flange for transfers under pressure
- Manway door interlock and automatic TUP equalization valve
- Two large view ports
- Weatherproof stainless steel control panel and enclosure with lockable stay
- Rail-mounted diver stretcher with fire-resistant head cushion
- Nylon web-type lifting sling set with stainless steel shackles
- Pressurisation system with large bore soft-seat needle type control valve
- Exhaust system with needle-type main control valve and auto-vent system. The auto-vent system automatically ventilates the chamber to maintain oxygen and carbon dioxide levels at acceptable limits.
- Connections for external air, oxygen and power supplies. These connection points are also used for recharging onboard supplies.
- Chamber atmosphere sampling circuit
- Dual-scale 0 - 70 MSW/0 - 230 FSW 0,25% accurate depth gauge
- High integrity safety valve set to open fully at 65 MSW
- Robust two-way communications system with fist microphone, tape recording connection, rechargeable 16-hour gel-cell battery pack and 110/220 VAC charger.
- Pre and post-dive checklist permanently attached inside the control panel lid.
- Detailed operating and maintenance manuals in hard copy and magnetic format for customer configuration management.

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Options

- 4,800 Litre onboard HP air supply system with two 12 litre 200 bar cylinders, manifold with recharging point, high volume piston-sensed regulator, HP/LP pressure gauges and interconnect pipe-work.
- Oxygen breathing system comprising supply and overboard discharge control valves, interconnect pipework, internal quick-connect couplings and a Divex Ultralite 2 overboard discharge oxygen mask.
- 2,400 Litre onboard HP oxygen supply with one 12 litre 200 bar cylinder with regulator, HP/LP pressure gauges and interconnect pipe-work.
- Chamber atmosphere oxygen analysis system (panel mounted or in a Pelican case).
- Chamber atmosphere carbon dioxide monitoring system (in a Pelican case).
- Weatherproof digital panel-mount stop watch.
- Chamber transport trolley
- Weatherproof PVC canvas cover with drawstring.
- 50 Litre 200 bar auxiliary air supply cylinder with 5/8 DIN valve and 5 m HP air supply hose assembly with 5/8 DIN male and female connections. This option is for when the TC 650 is ordered with the 4,800 litre onboard HP air supply option.
- 50 Litre 200 bar auxiliary air supply cylinder with 5/8 DIN valve and pressure regulator with HP/LP pressure gauges and 5 m LP air supply hose assembly with male and female quick-connect couplings. This option is for when the TC 650 is ordered without the 4,800 litre onboard HP air supply option.

- 50 Litre 200 bar auxiliary oxygen supply cylinder with valve, high volume oxygen regulator and 5 m LP hose assembly with quick-connect couplings for connecting to the chamber oxygen supply manifold.
- Gas supply cart with three 50 litre 200 bar air cylinders with regulator and LP air supply hose assembly and one 50 litre 200 bar oxygen cylinder with regulator and LP oxygen supply hose assembly (if the onboard HP air supply option is ordered, the gas cart is supplied with an HP air supply hose assembly with 5/8 DIN connections in place of the regulator and LP hose assembly). Includes nylon web-type lifting sling set with stainless steel shackles.

Specification

Design Code	ASME VIII Div. 1 and ASME PVHO-1
Certification Authority	Lloyd's Register
Maximum Depth Rating	60 MSW
Material of Construction	Duplex stainless steel
Volume	470 litres
View Port Diameter	120 mm
Overall Length	2,225 mm
Overall Height	975 mm
Overall Width	895 mm
Inside Diameter, Major	650 mm
Inside Diameter, Minor	450 mm
Gross Weight	140 kg excluding onboard air and oxygen supply cylinders 195 kg with onboard air and oxygen supply cylinders

As part of its policy of continuous product refinement, Divex reserves the right to change the specification without notice.

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TC-MDS-749 R0

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Order Code TC650