Venus Technical Data sheet of ELSA (emergency life support apparatus)

1. Description

Venus ELSA kit is a constant air flow breathing apparatus, which is used in emergency escape situations in hazardous industrial & marine environments.

The ELSA is simple & quick to operate and has robust & reliable design, ensuring maximum protection in escape situations. The ELSA can be operational for a period of 15 minutes. The ELSA contains cylinder with combined cylinder valve and reducer, supply hose to constant flow hood and storage bag. ELSA gets activated by opening the zip of bag whereby a pin which is attached to the bag via a strap is released and flow is started.

2. Applications

The Venus ELSA kit is suitable for use in Marine or Industrial Escape settings for escape use only.

3. Operation/Cleaning/Service/Training

Users need to be trained in the safe operation of this equipment. Routine checks must be carried out in accordance with the user instructions. Cleaning should also only be carried out as specified in the user instructions.

For training requirements please contact Venus Phone: 18002672346 or Email: info@venusohs.com. All servicing must be carried out by trained personnel who have been trained and are deemed competent by the manufacturer.

4. Storage

The apparatus must be stored in a clean dry environment away from direct heat & sunlight. Storage temperature needs to be in the range of -10 to 40°C.

5. Disposal

Decontaminated equipment should be dismantled & disposed of as solid waste. Empty cylinders should be treated as special waste and disposed of in accordance to local guidelines.

6. Carrying Bag

The carrying bag is made of PVC coated nylon. This is coloured for high visibility and is both flame retardant and chemical splash resistant. There is an anti-static option for working in potentially explosive atmospheres and this is made of polyurethane. The bag can be worn across the chest, as a bandolier or worn with an optional waist belt.

7. Hood

The constant flow hood is manufactured from polyurethane coated viscose. This is flame retardant and coloured for high visibility. This provides a stretch material for a comfortable fit combined with an elastomeric neck seal giving ease of donning over spectacles, beards and long hair. The optionally clear bubble visor is made from polyurethane. The mask has an exhale valve for increased performance and a compact ¼ mask reduced rebreathed CO2 levels.

8. Specifications

Operational Specifications	
Output pressure of PR	8 Bar
Opening pressure of safety valve	9 to 15 Bar
Alarm pressure	10 Bar
Alarm volume	more than 80 dB
Operation time	15min
Breathing resistance	5 mbar
Working pressure	200 Bar
Testing pressure	300 Bar
Volume of cylinder	3 liters
Overall weight	5.88 kg
Operating temperature	(-10 to 40 °C)
Air flow to the hood	1.5 to 2 Bar

Packaging			
Product	Dimension	Weight	Material
High Visibility PVC bag	64*26*12 cm	280gm	PVC/Polyurethane

Hose				
Structure	Material	Weight	WP/TP	
Braided	Polymer (High synthetic rubber)	600gm	300/450	

Hood				
Material	Colour	Weight	Neck seal tight material	Visor
PVC coated nylon	Fluorescent green	350gm	Rubber	Visor with clear PU

Cylinder				
Material	Volume	Weight(filled)	Service life	Pressure
AL	3 liters	4.68 kg	15mins	200 Bar
CC	3 liters	-	15mins	200 Bar
PET	3 liters	-	15mins	200 Bar

9. Important Notice

To the extent permitted by law, VENUS shall not be liable for any loss or damage including any loss of business, loss of profits or for any indirect, special, incidental or consequential loss or damage arising from reliance upon any information herein provided by VENUS. Nothing in this statement will be deemed to exclude or restrict VENUS liability for death or personal injury arising from its negligence.

10. Product Photograph

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