

H₂S Shelters



Uniteam has for years designed and built gas safe systems for clients around the world. The H₂S Shelters, which are patented by Uniteam, are supplied as mobile or stationary shelters for use offshore or onshore.

In petrochemical plants, oil & gas production and wastewater treatment facilities, there is the potential for gas exposure accidents. One of the most dangerous gases is hydrogen sulfide (H₂S).

Uniteam H₂S Shelters provide a safe haven for personnel to take refuge in the event of a major H₂S and CH₄ release. People can stay in the shelter for a minimum of 2 hours, waiting for rescue. Moreover, the engineers can handle the emergency in the operating room. When needed, they can put on the persona respirator and stop the emission outdoor.



Offshore H₂S Shelters for AGIP, Caspian Sea



Offshore H₂S Shelters, Kazakhstan

TOXICITY OF H₂S

10 ppb – detected by smell

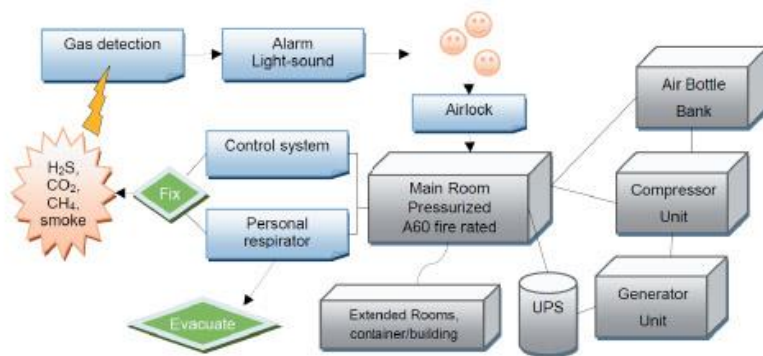
14 ppm – STEL (short term exposure limit: 15 minutes)

50-100 ppm – loss of sense of smell in 3-5 min, tear in the eyes and coughing

200-300 ppm – marked eye and respiratory irritation, followed by severe headache

500-700 ppm – unconsciousness followed by death if not treated quickly, lungs are paralyzed

>1000 ppm – rapid unconsciousness followed by failure of respiratory system and immediate death



Structure:

- Offshore container (DNV), Onshore container (ISO)
- 20ft: 6058 x 2438 x 2591, 40ft: 12190 x 2438 x 2890
- Combination of container and building
- Customized

Features:

- Mobile or stationary
- Gas detection with light-sound alarm
- Pressurized with airlock
- Operation panel for on-site controlling
- A60 fire rated
- Ex proof for Hazardous Zone I/II
- Air supply system
- Protection for minimum 2 hours
- Capacity of up to 1500 persons
- Power supply via generator or UPS
- Redundancy controlling system



Operation Room



Compressor Unit



Generator Unit



Air Bottle Bank