

RSS US Services Inc

Offshore – MES Chute Systems ECS Range

RSS are a Houston based Safety Company who manufacture and supply a comprehensive range of secondary egress solutions for the on/offshore oil and gas industry Worldwide. Escape Chute technology has been in commercial, and hi-rise building for over twenty years and offers a fast and effective method of descending to ground level in an enclosed and heat protected environment.

In 2005 RSS developed an extensive range of fully integrated escape chute systems for fixed and variable height applications to date we currently have over 180-MES systems operational offshore globally for all major owner, operators and are constantly designing and developing new systems designed to enhance safety of life at sea.

The RSS ECS-65 model is small free fall deck mounted and mechanical (IECS) and can be supplied with a fully integrated life raft cradle that is capable of holding up to two or even three 50 person rafts, or alternative sized life rafts or configurations can be supplied.

The ECS-65 system mechanical and free fall providing a high level of reliability at one third the cost of comparable systems. The ECS-65 is a low maintenance MES system requiring very little onsite maintenance other than monthly customer inspections. RSS or our local service station can carry out the annual and full five-year inspections.

Options ECS-65 integrated to be an IECS-66 Cantilevered System:-

Variable or height chute system with 30-person debarkation/boarding raft, stabilization plate and purpose-built deployment container. This is the basic system and is ideal for dropping into a deck cut-out providing there is an uninterrupted drop to sea level.

The customer can integrate deck mounted throw over life rafts which are attached to the internal boarding raft offering a basic fully integrated system.

ECS-65 is the basic deck mounted system and suitable for locations that have a clear uninterrupted drop to sea level under the deck. The chute system stores the main chute, Boarding raft and weighted stabilization plate, this system can be used as a stand-alone system.

By adding a hand-rail skid and cantilever frame the system becomes our IECS-66 system that is cantilevered over the edge of the facility,

IECS-66 is the Cantilevered fully integrated system with fully integrated front life raft cradle, or they can be stored on deck each side of the MES system with their painter lines connected inside the main ECS-65 Chute Container, the rafts are deployed to sea first then the chute system is deployed within 30 seconds.

ECS-65 Main Chute Container Contents

Variable V450 Kevlar Netted Zig-Zag Chute with 30-person self inflating debarkation/boarding raft, stabilization plate and purpose-built deployment container. This system is supplied with a purpose



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- Offshore Derrickman Vertical Escape Chute System.
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Additional Products:

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- General Information Boards, Dry Wipe, Magnetic, Permit to Work and T-card muster Cabinets in Fiberglass & Stainless Steel.
- Photoluminescent evacuation tracking for accommodation units, Photoluminescent signage notices and boards.
- Coiled Identification Pipe Marking Systems.
- Lock Out Tag/Out Systems
- Valve Identification Tag Systems



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Technical Specification:

The ECS-65 is a basic chute container fabricated from mild steel and painted in a three-coat epoxy finish and suitable for offshore salt laden environments. The system houses and stores the main Kevlar chute system, 25 or 30-person self-inflating boarding raft and weighted stabilization plate. The ECS-65 is suitable for deck mounting only and a suitable deck location is required providing an uninterrupted drop to sea below the deck.

The main life rafts can be stored at the side of the ECS-65 and their painter lines are attached inside the main chute container and attached to the self inflating boarding raft. The main rafts are deployed to sea first then within 30 seconds the main ECS-65 chute system is deployed, the boarding raft self inflates, and the main rafts float free attached to the boarding raft by their painter lines. The first evacuees descend the chute pull in the main rafts and tie them to the boarding raft, full evacuation can now commence.

The system is free fall and mechanical and can be supplied with a front mounted life raft cradle that is capable of holding up to qty 2 x 50-person SOLAS A pack self righting life rafts. The painter lines are fed back into the lower chute container and attached to the 30 person debarkation/boarding raft. The weight stabilization plate sits 15ft below sea level when deployed and is connected using qty 4 x 15400lb Kevlar cables ropes that are attached inside the main chute container and are fed through the chute using guide shackles this keeps the chute within the four main Kevlar ropes providing structural rigidity. The four Kevlar ropes are then fed through the centre of the debarkation/boarding raft and attached to the weighted stabilization plate, this enables the raft and chute to move up and down freely accounting for wave action.

The chute column is maintained by the stabilization plate. RSS carry out a wave, wind and speed analysis based on customer supplied met ocean data, this ensures that the stabilization plate is at the correct weight to keep the column vertical at all times and based the 100-year return.

OPTIONAL Although the main micro netted Kevlar chute is fire rated to 650C°, RSS offer an upper protective sleeve that fits around the main Kevlar chute and provides an additional wall/barrier to reduce the risk of radiated heat entering the main chute. The RSS electro- fiberglass top sleeve is designed for ease of use and is enclosed providing protection from heat flux or radiated heat providing additional heat protection of 650 degrees and a melting point of 800 degrees.

The integrated lower netted zig zag chute offers evacuation at every 1.21m cell and is ideal for variable height applications where ballast our wave action effect the egress point.

Supporting documentations supplied with each system:

- Full Operational & Maintenance schedule management systems are provided
- 12ft Training Chute -Optional
- Train the Trainer, Training and certification programs are offered - Optional
- Monthly Inspection Program to allow the customer to carry out routine maintenance checks.
- Full support for the full range of RSS MES Chute Solutions.



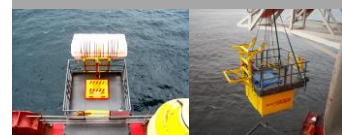
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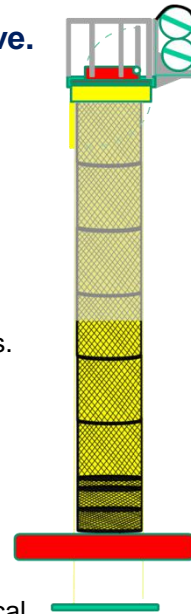
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ESCAPE CHUTES - FIXED & VARIABLE HEIGHT APPLICATIONS!

NETTED ZIG ZAG CHUTE WITH 650-degree Outer Sleeve.

- Kevlar Micro-Netted Lower Vertical Escape Chute.
- Type Zig Zag with 1.21m cells & rear access for variable height.
- Suitable for variable height applications.
- In ballast down or wave condition unused sections remain coiled in the base of the debarkation/boarding raft.
- Suitable for use with life jackets, immersion suits, breathing apparatus.
- Each 1.21m section has a rear access cut to allow evacuees to exit the chute through each 1.21m section at variable heights.
- Provides a safe and rapid evacuation method.
- Optional Electro-fiberglass outer sleeve provided for maximum heat flux protection at higher levels.
- Suitable for Platforms or Vessels with ballast conditions or geographical locations with high wave swell, tidal or strong wind conditions.



IECS-66 – With Purpose Built 14ft x 14ft Cantilever Frame.

- If deck space is at a minimum and a 7ft x 7ft cut out is not available with an uninterrupted drop to sea level, RSS can provide a purpose built heavy duty cantilever frame.
- The RSS Cantilever frame is built in line with customer requirements and all structural calculations are provided to support the design and manufacturer.
- The cantilever frame is designed to allow the 7ft x 7ft skid to drop and bolt in and can be easily removed for service or inspection.
- In all cases RSS design the frame based on customers fitting location and in most cases structural information is required to ensure the location is suitable.



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