

3D Model of SEP-iSYS™ CSU.



Load out of the
Sep-iSYS™ CSU MAMPU-1 LPV in 2015.

Sep-iSYS™ CRUDE STABILIZATION UNIT

The Sep-iSYS™ Crude Stabilization Unit (CSU) is a compact production system that is specifically tailored for marginal field developments. Incorporating the multifunctional and high performance Sep-iSYS™ Separator, the Sep-iSYS™ CSU is a compact high performance production system which includes 3-phase separation, produced water treatment system, integrated flare knock-out drum and chemical injection tanks. The system is jointly developed and owned with PETRONAS.

ABOUT THE SYSTEM

The system provides high separation efficiency through effective handling of slug and sand, selective inlet liquid heating, stable inlet three (3) phase separation and high liquid droplet removal efficiency from gas. The system is also designed to treat produced water to meet regulatory disposal specifications. This proprietary system is designed with no rotating equipment and with minimal controls, thus, ensuring very high reliability and availability and low operational manning requirements. The system is self-contained, with limited utility requirement of instrument air and heating medium. Compared to conventional production units, the Sep-iSYS™ CSU has the potentiality of space and weight saving of up to 50%, resulting to significant cost savings.

MAIN FEATURES AND BENEFITS

- Compact & Light Weight;
- Capable of handling large slug volume and sand with minimal pressure drop;
- Reduces the size of the slug handling component of the system as liquid hold-up and degassing is undertaken in the downstream separator;
- Stable and efficient three (3) phase separation and stabilization of production;
- Designed with minimal instrumentation, control and shutdowns; and
- Eliminates the need for rotating equipment in the process system thus increasing the system's reliability and availability.

TRACK RECORD



Sep-iSYS™ CSU for MAMPU 1

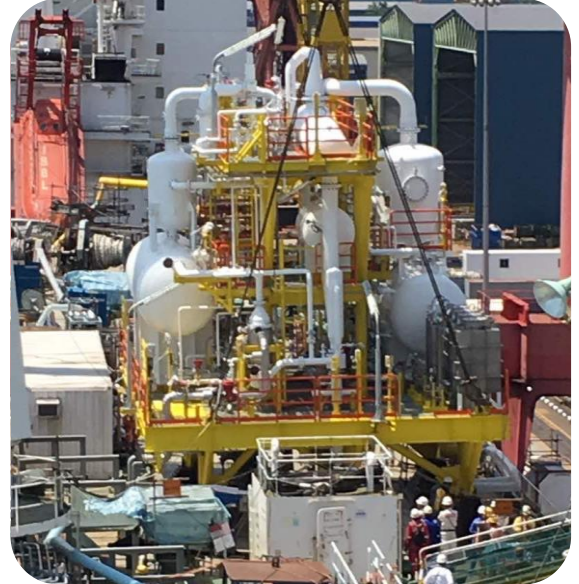
Client:
MISC Berhad

Operating Capacity:
 Maximum Liquid : 15000 BOPD
 Maximum Oil : 15000 BOPD
 Maximum Water : 14250 BWPD
 Maximum Gas : 25 MMscfd
 Design Pressure : 17 barg

Package Dimensions:
 Length : 15.9 m
 Width : 12.1 m
 Height : 14.4 m
 Dry Weight : 132 tons

Location:
Anjung Kecil Field in Offshore Sarawak

Status:
Production Since December 2016



Sep-iSYS™ CSU for OPHIR Facility

Client:
MTC Engineering Sdn Bhd

Operating Capacity:
 Maximum Liquid : 15000 BOPD
 Maximum Oil : 15000 BOPD
 Maximum Water : 2000 BWPD
 Maximum Gas : 25 MMscfd
 Design Pressure : 17 barg

Package Dimensions:
 Length : 9.2m
 Width : 11.5 m
 Height : 11.7 m
 Dry Weight : 92 tons

Location:
OPHIR Field in Offshore Peninsular Malaysia

Status:
Production Since December 2017