

## **AVAILABLE FOR SALE**

### **TEMPORARY SUBSTATIONS**

#### **MAIN 13.8kv SUBSTATION**

#### **GENERATION (GM) 690v SUBSTATION**

#### **LIVING QUARTERS (LQ) 690v/400v SUBSTATION**

#### History

The Substations were designed and built to support the construction phase of an offshore North Sea Platform which has now been completed, but the substations were never used.

#### General Description

The Substations consist of thermally lined rigid steel structure with container type corrugated outer skin, inside walls of substation are formed from modular sheet steel pods, each individually sealed to stop vapour ingress. The external walls are 2.0mm thick mild steel with standard corrugated profiles, all seams are fully welded. Substations that have dedicated transformer rooms also have weather louvres built into the walls.

The roofs are constructed from 1.2mm thick mild steel, all seams fully welded or weather sealed. The walls and roof are internally lined with 45kg/3 mineral wool, retained by zintec steel sheet panels. The mineral wool has a minimum of 100mm thickness in the roof cavity and 100mm in the walls.

The floor consists of a 5mm thick mild steel internal floor on a fabricated base. A 2.0mm mild steel liner is provided underneath the module retaining a 100mm layer of mineral wool.

Each substation sits on a steel support understructure which is clamped to the underside of the base. One set of stairs and landings is provided, adjacent to the personnel/equipment double access door.

#### Material Specification Structural:

All RHS and SHS Sections to	BS EN 10210 S355J2H
All Plate Material over 5mm thick to	BS EN 10025 S355J2
All Plate Material 5mm and under to	BS EN 10025 S275JR
All Aluminium Gland Plates 6mm Marine Grade	5083-H111

**Year of Manufacture:** built 2013

**Condition of Equipment:** UNUSED

**Documentation:** Full Data Books, Certifications, Manuals etc

**Availability:** Immediate

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## MAIN 13.8kv SUBSTATION



The Main 13.8kv Substation has been designed and built to house a 13.8kv Switchboard, 100kva Transformer and associated equipment. One external equipment & personnel access double door is provided. Fitted internal panic bar release; removable panel above door provided to increase maximum available headroom to 3metres. Access & Stair are provided.

### Weights & Dimensions

Substation	32,000kg	10751 x 4000 x 3708mm LWH
Understructure side frame	650kg ea.	2630 x 4000 x 1500mm
Understructure end frame	560kg ea.	2335 x 4000 x 1500mm
Open grid floor with landing frame	336kg	4750 x 1406 x 1800mm
Stair stringer with treads	280kg	incl.
Landing leg	45kg ea.	
Temporary brace	68kg ea.	

### Comprising

100kva 13.8kv/420v Transformer	ETR-89901
13.8kv Switchboard	ESW-89901
LV Distribution Board	EDB-89901
Remote Control Panel	ECP-89901
110v DC UPS Panel	EIN-89901
TX 300kva Protection Unit	
TX 500kva Protection Unit	
HVAC External Condenser Unit	HCN-88901
HVAC Internal Air Handling Unit	HAH-88901
HVAC Control Panel	HCP-88901
Fire Panel	DRP-89901
Smoke Detectors (4)	DSA-89901/2
Fire Manual Call Point	MAC-89901
Fire Sounder Beacons Int/Ext	DAL-89901/2
Fire Extinguisher	SFC-89901
Stairs & Landing	EME-89901
Domestic Electrical Twin Sockets (4)	ES3-89901/2
Flourescent Lights c/w Emerg. BU (6)	EFL-89901-6
LIT Emergency Exit Sign	EFL-89901-07
Electrical Light Switch Isolator	EIS-89901
15kva 3phase AutoTransformer	HAC-89901-3
Common Fault Warning Light	EWL-89901
Electrical Intervention Kit (Life Saving)	SEIK-89901
Key Safebox	EEL-89901
Portable Emergency Hand Lamp	RSL-89901

## GENERATION (GM) SUBSTATION



The Generation Substation has been designed and built to house a 690v Switchboard, 100kva Transformer and associated equipment. One external equipment & personnel access double door is provided. Fitted internal panic bar release; removable panel above door provided to increase maximum available headroom to 3metres. Access & Stair are provided. At one end of the Substation is a dedicated transformer room containing a 1000kva transformer. The end of the transformer room has a removable bolted wall.

### Weights & Dimensions

Substation	18,000kg	8000 x 3000 x 3663mm LWH
Understructure side frame	550kg ea.	4000 x 3000 x 1500mm
Understructure end frame	460kg ea.	4000 x 3000 x 1500mm
Open grid floor with landing frame	336kg	
Stair stringer with treads	280kg	
Landing leg	45kg ea.	
Temporary brace	51kg ea.	

### Comprising

1MVA 13.8kv/720v Transformer	ETR-89902
690v LV Switchboard	ESW-89902
LV Distribution Board 690/230v, 100kva	EDB-89902
Remote Control Panel	ECP-89902
110v DC UPS Panel	EIN-89902
HVAC External Condenser Unit	HCN-88902
HVAC Internal Air Handling Unit	HAH-88902
HVAC Control Panel	HCP-88902
Fire Panel	DRP-89902
Smoke Detectors (4)	DSA-89902-1/2
RoR Heat Detectors (weatherproof)	DHR-89902-1/2
Fire Manual Call Point	MAC-89902
Fire Sounder Beacons Int/Ext	DAL-89902-1/2
Fire Extinguisher	SFC-89902
Stairs & Landing	EME-89902
Domestic Electrical Twin Sockets (4)	ES3-89902-1/2
Flourescent Luminaire c/w Emerg. BU	EFL-89902/1-4
LIT Emergency Exit Sign	EFL-89902-05
Electrical Light Switch Isolator	EIS-89902
15kva 3phase AutoTransformer	HAC-89902-03
Common Fault Warning Light	EWL-89902
Electrical Intervention Kit (Life Saving)	SEIK-89902
Key Safebox	EEL-89902
Portable Emergency Hand Lamp	RSL-89902

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## 690v / 400v SUBSTATION



The Living Quarters Substation has been designed and built to house 690v & 400v Switchboards and associated equipment. One external equipment & personnel access double door is provided. Fitted internal panic bar release; removable panel above door provided to increase maximum available headroom to 3metres. Access & Stair are provided. At one end of the Substation is a dedicated transformer room containing a 2200kva Transformer and a 1200kva Transformer. The end of the transformer room has a removable bolted wall.

### Weights & Dimensions

Substation	26,000kg	7500 x 4000 x 3708mm LWH
Understructure side frame	525kg ea.	3750 x 4000 x 1500m
Understructure end frame	560kg ea.	3750 x 4000 x 1500m
Open grid floor with landing frame	336kg	1343 x 2230mm
Stair stringer with treads	280kg	2130 x 730mm
Landing leg	45kg ea.	
Temporary brace	68kg ea.	

### Comprising

2.2MVA 13.8kv/720v Transformer	ETR-89903
1.2MVA 13.8kv/420v Transformer	ETR-89904
690v LV Switchboard	ESW-89903
400v LV Switchboard	ESW-89904
LV Distribution Board	EDB-89903
Remote Control Panel	ECP-89903
110v DC UPS Panel	EIN-89903
HVAC External Condenser Unit	HCN-88903
HVAC Internal Air Handling Unit	HAH-88903
HVAC Control Panel	HCP-88903
Fire Panel	DRP-89903
Smoke Detectors (4)	DSA-89903-1/2
RoR Heat Detectors (weatherproof)	DHR-89903-1/2
Fire Manual Call Point	MAC-89903
Fire Sounder Beacons Int/Ext	DAL-89903-1/2
Fire Extinguisher	SFC-89903
Stairs & Landing	EME-89903
Domestic Electrical Twin Sockets (4)	ES3-89903-1/2
Flourescent Light c/w Emerg. BU(16)	EFL-89903/1-4
LIT Emergency Exit Sign	EFL-89903-05
Electrical Light Switch Isolator	EIS-89903
15kva 3phase AutoTransformer	HAC-89903
Common Fault Warning Light	EWL-89903
Electrical Intervention Kit (Life Saving)	SEIK-89903
Key Safebox	EEL-89903
Portable Emergency Hand Lamp	RSL 89903