

# 3. PLANT PERFORMANCE SPECIFICATION

## 3.1 PERFORMANCE

 Inert gas capacity at 400 mm WG and 25°C at the deck water seal outlet

: 2,850 m<sup>3</sup>/h

NOTE: According to common standard ISO 1217, capacity margin will be  $\pm$  4%. To confirm the guaranteed value, a Pitot tube that complies with BS 1042 – 2.1 will be used for capacity measurements.

- Pipeline pressure drop between the fresh air intake and non-return valve on deck shall not exceed 350 mmWG. (Yard responsibility)
- Temperature difference between the inert gas scrubber outlet and seawater scrubber inlet of design capacity

: 12 °C

- Turn Down Ratio

: 4:1

### 3.2 INERT GAS COMPOSITION

O<sub>2</sub> content % by vol. (Man. adjustable).
 CO<sub>2</sub> content % by vol.
 SO<sub>2</sub> content max. ppm by vol.
 N<sub>2</sub>
 Relative humidity at scrubber's outlet
 Soot content (Bacharach)

: 2-4
: 12-14
: 50<sup>1)</sup>
: Balance
: 100%
: 0

<sup>1)</sup> NOTE: SO<sub>2</sub> content will depend on SO<sub>2</sub> content in the applied fuel.



# 4. UTILITIES

#### 4.1 FUEL OIL

Quality : Marine Diesel Oil

Consumption at design cap. and at 3.5% : 211 kg/h

0,

### 4.2 COOLING WATER

Quality : Filtered seawater

Consumption – Scrubber
 Pressure at scrubber's inlet
 171 m³/h
 2.0 barg

• Inlet temperature max. : 32 °C.

Consumption deck seal
 Pressure at deck seal inlet
 6 m³/hr.
 0.5 barg

### 4.3 ELECTRICITY

Blower motor (approx.)
 440V, 60 Hz,

3 Ph, 45 kW Rated : 65 kW

• Fuel oil pump motor : 440V, 60 Hz,

0.75 kW

Supply system for control panel
 220V, 60 Hz,
 1 Pb, 1kW

1 Ph, 1kW

Emerg. supply for alarm panel
 220V 60 Hz

### 4.4 INSTRUMENT AIR

Quality : Dry, clean and

oilfree

Dewpoint : +5°C
 Supply pressure : 7 barg
 Consumption for pneumatic valves mainly : 70 l/min.

at start and stop

(approx.)

# 4.5 AMBIENT AIR

For combustion

For gas freeing

 Sufficient ventilation for burner area is required Ventilation temp. max.

: 40°C