

Moss Mult-Inert™ System

Inert Gas Systems

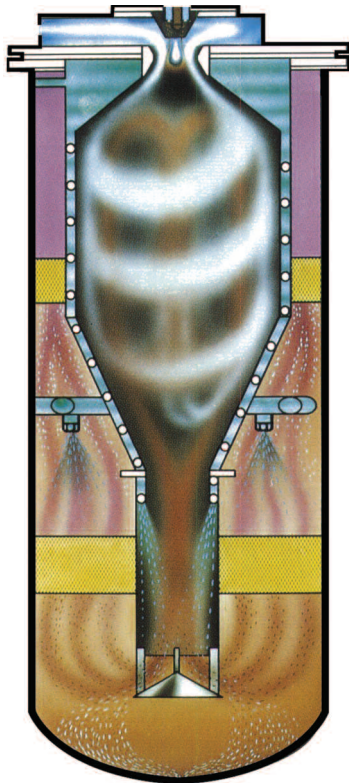


Moss Mult-Inert™ System



Centrifugal fan

Moss Mult-Inert™ System

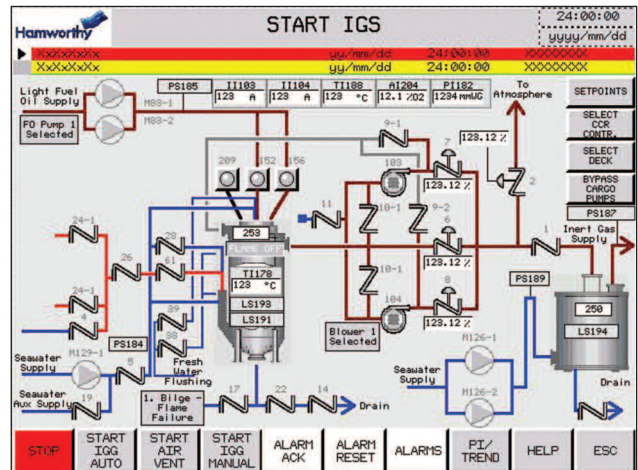


High inert gas quality is made possible by a purposely designed combustion chamber

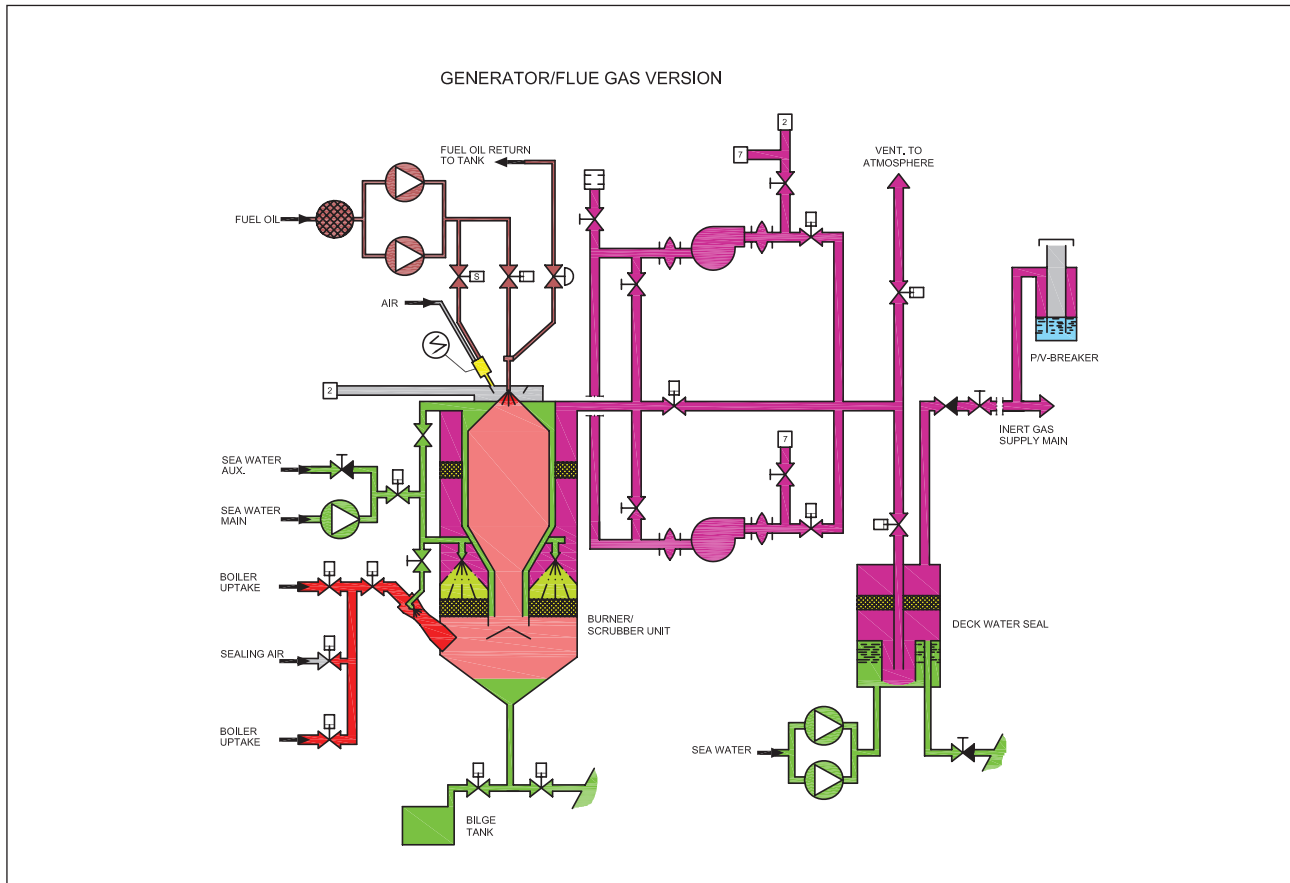
The unique design is based on experience from thousands of installations, the first one in the 1960's. High efficiency, low maintenance costs, safe and easy operation combined with minimum space requirements are important features of the Moss design. This is reflected in the overall layout, the choice of materials/corrosion protection and the control system.

The Moss Mult-Inert™ Systems combine into one compact unit the features from both the Moss Flue Gas System and the Moss Inert Gas Generator System.

The system can run either as an inert gas generator or as a flue gas system when the ship's boilers are in use.



Typical picture of the touch screen user interface



Performance data for generator mode

Capacity: Up to 20.000 Nm³/h.

Normal discharge pressure:

0,12 bar g. Other pressures upon request.

Inert gas composition at 3% by volume of oxygen:

(based on marine distillate fuel).

CO	=	Max. 100 ppm	NO _x	=	Max. 150 ppm
SO ₂	=	Max. 1 ppm	CO ₂	=	Approx. 14%
N ₂ + Ar	=	Balance			

Oxygen content adjustable down to approx. 1%.

Gas outlet temperature:

Max. 5°C above sea water temperature.

Relative humidity: 100%

Carry over of water droplets:

Less than 1 g/kg dry gas.

Fuel:

Marine distillate according to ISO 8217 or marine residual fuels pre-heated to max. 20 cSt.

Nominal fuel consumption:

0,075 kg/Nm³ gas.

Nominal sea water consumption:

0,06 m³/Nm³ gas (sea water temp. 32°C).

Nominal el. power consumption:

0,015 (0,01 - 0,02) kW/Nm³/h gas (excluding sea water pumps).

Performance data for flue gas mode

Capacity: Up to 20.000 Nm³/h.

Basic flue gas consumption:

O₂ - content: Approx. 5% by vol.
 CO₂ - content: Approx. 13% by vol.
 SO₂ - content: Approx. 3000 ppm.
 N₂ - content: Balance

Inert gas composition:

O₂ - content: No change
 CO₂ - content: No change
 SO₂ - content: Less than 100 ppm
 N₂ - content: Balance

Efficiency of soot extraction equal to or higher than 99% of particles above 1 micron.

Fresh water flushing:

0,00006 - 0,0013 m³/Nm³.

Gas outlet temperature:

Max. 5°C above sea water temperature.

Relative humidity: 100%

Carry over of water droplets:

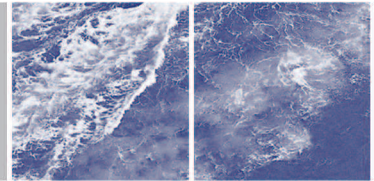
Less than 1 g/kg dry gas.

Nominal sea water consumption:

0,015 m³/Nm³ gas (sea water temp. 32°C).

Nominal el. power consumption:

0,008 kW/Nm³/h gas (excluding sea water pumps)



Worldwide sales and service network

Our global network of sales and service centres ensures that we can provide first class technical, spares and service support to our customers wherever they are around the world. In addition to our sales and service locations, we are supported by agent representatives in all major shipping areas.

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