Redfox Marine Series IMO MEPC 159(55) Certified Sewage Treatment System

**Product Description & Specifications**

**USCG & IMO MEPC.159 (55) Approved**

Extended Aeration Biological Wastewater Treatment Process

**Construction Specification**

1/4” Thick ASTM-A-36 Steel

4 Chamber Design

- Aeration – 24 hour Retention
- Flooded Clarifier - Under Head Pressure Design 6 hour Retention
- Media Chamber - 30-Minute Retention
- Chlorine-Contact Chamber 30-Minute Retention

Hatches Fasteners: ½ 316SS Studs, Nuts & Washers

2” Drain FMPT Fittings On Each Chamber

Inlet Bar Screen

Sludge Return Line (1)

Skimmer Return Line (2)

External Air Piping 316SS

4 Point Lifting Lugs

All External Connections FMPT

Internal Fluid Piping Sch 80 PVC

**Paint Specification**

**Interior Paint (Carboline)**

First Coat – Carboline 187-0500 modified phenolic epoxy lining @ 5.0 to 7.0 mils DFT.

Second Coat – Carboline 187-C703 modified phenolic epoxy lining @ 5.0 to 7.0 mils DFT.

**Exterior Paint (Carboline)**

First Coat – Carboline Carbozinc 11-0300 inorganic zinc applied @ 2.0 to 3.0 mils DFT.

Second Coat – Carboline 893-0600 high build inhibited epoxy applied @ 4.0 to 6.0 mils DFT.

Third Coat – Carboline 134HG-C703 high build polyurethane @ 2.0 to 3.0 mils DFT

**Equipment Specifications**

Simplex Blower Assembly:

- Roots - Rotary Lobe
- Blower Pulley Guard
- Inlet Filter Silencer
- 0-15 PSI Gauge
- Bronze Clarifier Control Valves.
- ¼” Bronze Sample Valve
- Air Diffusers 316 Stainless Steel
- 3/4” Conbraco 6-PSI Pressure Relief Valve
- Chlorine Chemical Tank And Liquid Meter Assembly

Discharge Pump Tsurumi 50PU2.4S

Electric Submersible Pump

NEMA 4X Control Panel For Blower

And Discharge Pump Operation

High Level Alarm

Float Switch Controller For Discharge Operation

Common Liquid Bleach Used