

HELIJECTOR FOAM PROPORTIONING SYSTEM

NPR430

- Self Contained Skid Mounted Foam Proportioning System
- Manufactured From Materials Accepted For Offshore Use
- Suitable For Use With National Foam Oscillating Monitor



Description

The National Foam Helijector is a self contained skid-mounted foam proportioning system, comprising a foam storage tank, water turbine, foam pump and all interconnecting pipework.

All components are manufactured from materials accepted for offshore use and are mounted within a robust steel framed skid.

Developed primarily for offshore helideck monitor protection systems, the Helijector is available in three sizes to match constant flow rates of 238, 476 and 713 gpm at 102 psi (900, 1800 & 2700 lpm at 7 bar) and is particularly

suitable for use with National Foam Oscillating Monitors.

The unit is also ideal for use with any other fixed foam system with a known constant flow where very low maintenance is a priority.

The National Foam Helijector requires no external power source other than the fire main water and operates immediately the water inlet valve is opened after pump start up. The initial foam supply gives a running time at 102 psi (7 bar) of between 10 minutes and 30 minutes (see OPERATING DATA) but the atmospheric foam storage tank can be replenished during use to allow continuous operation.

The Helijector is designed to provide a fixed percentage foam concentrate injection (1% or 3%) into a monitor or similar foam system with a constant foam solution demand. A small amount of water main supply is used to drive a pelton wheel turbine connected to a foam pump and the amount of concentrate delivered relates directly to the turbine speed. The system thereby automatically compensates for variations in water flow caused by small fluctuations in system pressure, so operation is maintained. A convenient flushing line is provided to pass clean water through the foam pump after use.

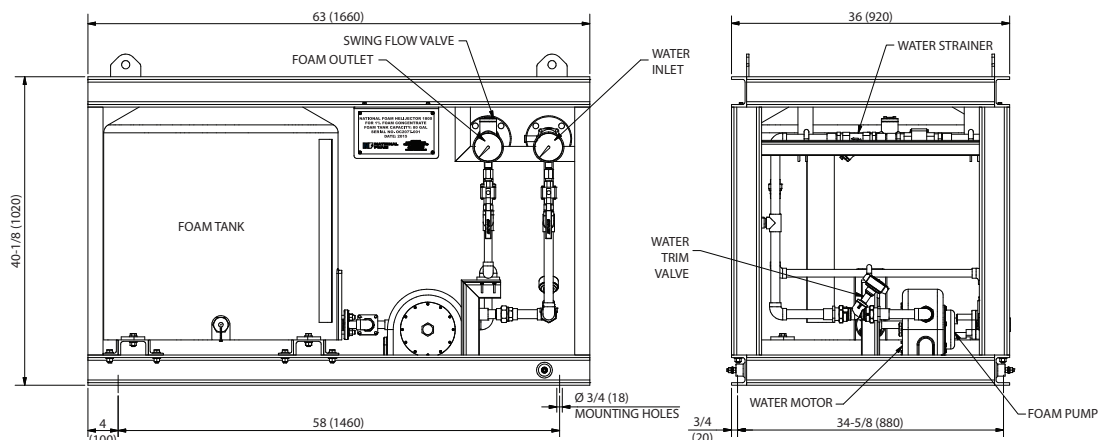


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| Construction | | |
|--|---|--|
| Foam Tank | | Glass fibre reinforced polyester resin. |
| Foam Pump | Casing: Rotors: Shafts: | Gunmetal LG2 to BS 1400 Phosphor Bronze to BS 1400 Stainless Steel |
| Water Motor | Pelton Wheel: | Phosphor Bronze to BS 1400 with LG2 |
| Valves | | Gunmetal LG2 to BS 1400 + Stainless Steel 316 |
| Pressure Gauges | | 4" (100 mm) pressure gauge; 0-232 psi (0-16 bar) glycerine filled |
| Pipes & Fittings | | 90/10 Copper Nickel to BS 2871 Part 2 Table 3 |
| Skid Framework | | Structural Steel to BS 4360 |
| Skid Dimensions (excluding lifting eyes) | | 63" x 30-3/4" x 39-5/16" (1660 x 780 x 1000 mm) |
| Mounting Bolt Holes | | 3/16" x 3/4" (4 x 18 mm) diameter |
| Earthing Boss | | M10 tapped hole |
| Finish | Standard: Option: | Red Thermoplastic Powder Coated Painting to Client Paint System |
| Weight (approx.) | Empty: Full: | 423.25 Lbs. (192 Kg.) 1131 Lbs. (513 Kg.) |
| Technical Data | | |
| Operating Pressure | Standard: Option: | 102 psi (7 bar) As per Specific Requirements* |
| Flow Rate | Standard: Option: | 238 gpm/476 gpm/713 gpm (900 lpm/1800 lpm/2700 lpm) Flow Rate to Suit Specific Application* |
| Connections | Water Inlet: Foam Concentrate Outlet: Waste Water Discharge: | 1-1/2" NPT male 1" NPT male Open Drain |
| Foam Tank Capacity | | 80 gal. (300 liters) |
| Induction Rate | | 1% 3% @ 238 gpm (900 lpm) flow only |
| Operating Time (approx.) | 238 gpm (900 lpm) Model 476 gpm (1800 lpm) Model 713 gpm (2700 lpm) model | 30 minutes (10 minutes where 3% used) 15 minutes 10 minutes |
| Operating Temperature Range | | 32°F to 122°F (0°C to 50°C) |

* Please contact National Foam Engineering Dept. for specific applications and maximum/minimum operating pressures and flow rates.



National Foam

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National Foam operates a continuous program of product development. The right is therefore reserved to modify any specification without prior notice and National Foam should be contacted to ensure that the current issues of all technical data sheets are used.

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