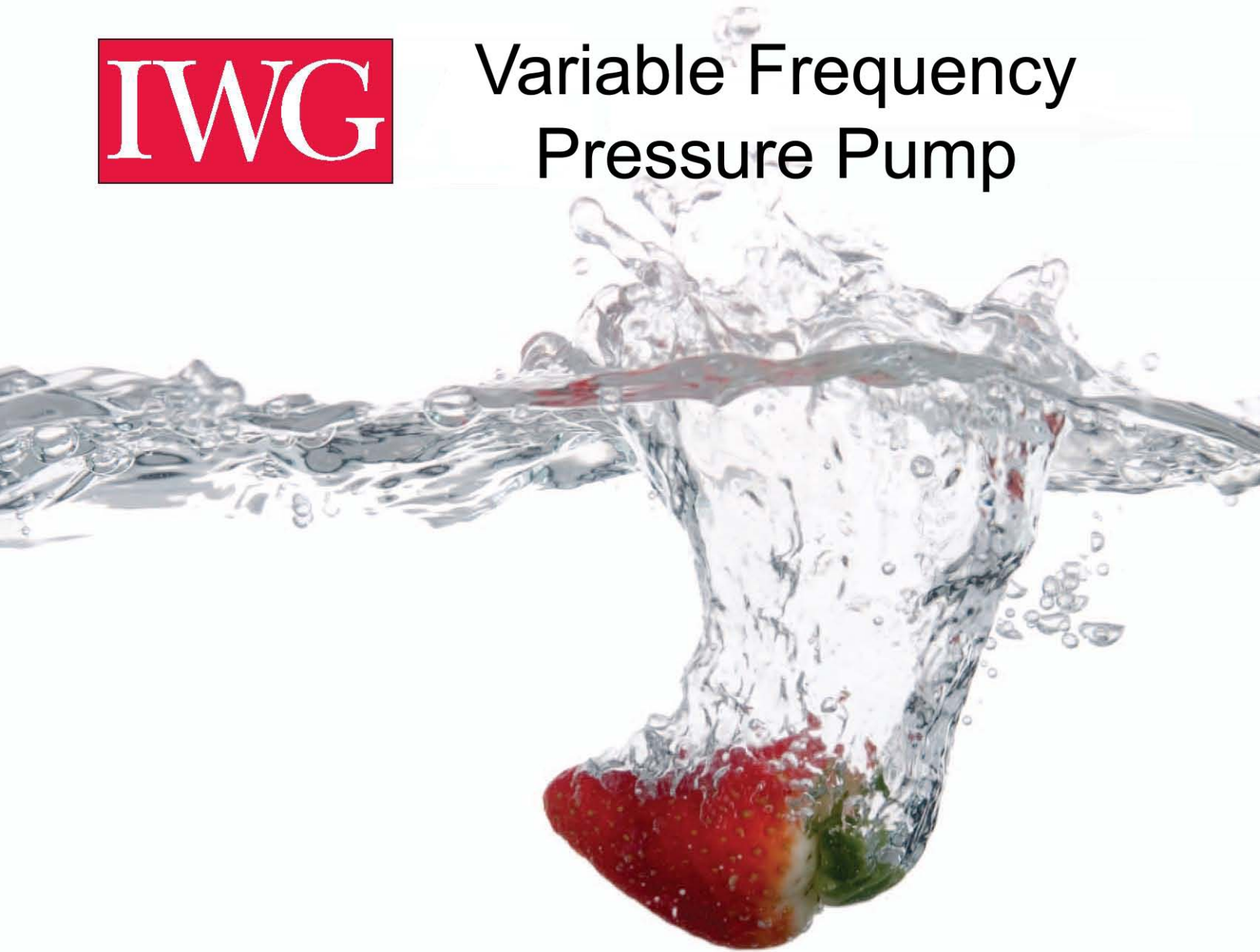




Variable Frequency Pressure Pump



IWG P/N 9-30011-01

The Potable Water System Variable Frequency Pressure Pump is a centrifugal pump that is driven by an electric motor. The pump motor is powered by 3-Phase 115/200 VAC, variable frequency power.

The motor is a 6-pole design operating at 7,600 rpm. It consists of a single-speed "wet-running" design. The bearings are made of carbon, and able to operate for extended periods of time without the presence of water. An expansion chamber provides protection against freezing. Overheat protection automatically resets.

The Variable Frequency Pressure Pump is ideal for providing supplemental pressurization for VIP and Corporate Aircraft with high water use.

IWG PUMP SPECIFICATIONS

> 3 Phase, 115/200VAC > 325-540 Hz > Stainless steel construction > Light weight
 > 100,000 hour MTBF > Capable of providing uniform water system pressure at all operational altitudes

MECHANICAL

Overall Dimensions: 4.50" (114 mm) high x 4.44" (113 mm) wide x 6.06" (154 mm) deep
Net Weight (Dry): 6.75 lbs (3.1kgs)

ELECTRICAL

Input Voltage: 3-Phase, 115 VAC, 325-540 Hz
Nominal Current Draw: 1.5 A per phase
Electrical Interface: MIL-C-38999 Series II (27499E-T12-8P)

ENVIRONMENTAL

ALL TESTS TO DO-160D

Ground Survival & Operating Low Temp

4.0, Cat A2, Similarity

Ground Survival & Operating High Temp

4.0, Cat A2, Test

Altitude: 4.0, Cat A2, Similarity

Overpressure: 4.0, Cat A2, Similarity

Humidity: 6.0, Cat A, Test

Operational Shock: 7.0, Cat B, Similarity

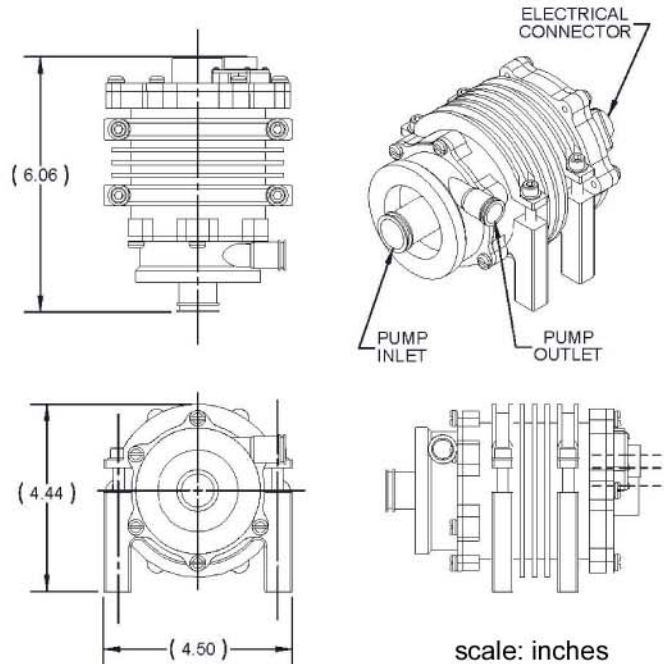
Vibration: 8.0, Cat S, Curve C, Similarity

Power Input: 16.0, Cat Z, Test

Voltage Spike: 17.0, Cat A, Similarity

Emission of Radio Frequency Energy: 21.0, Cat L, Analysis

Similarity Tests conducted on Pressure Pump (400Hz) P/N 9-30001-02



PRESSURE/FLOW

Maximum Pressure: 41.9 PSID @ 0 GPM and 540 Hz

Minimum Pressure: 10.9 PSID @ 4 GPM and 325 Hz

Nominal Pressure: 19.4 PSID @ 4 GPM and 400 Hz

OVERHEAT PROTECTION

The electrical windings are protected to prevent overheating
 Meets MIL-M-7969C and MIL-S-404 standards

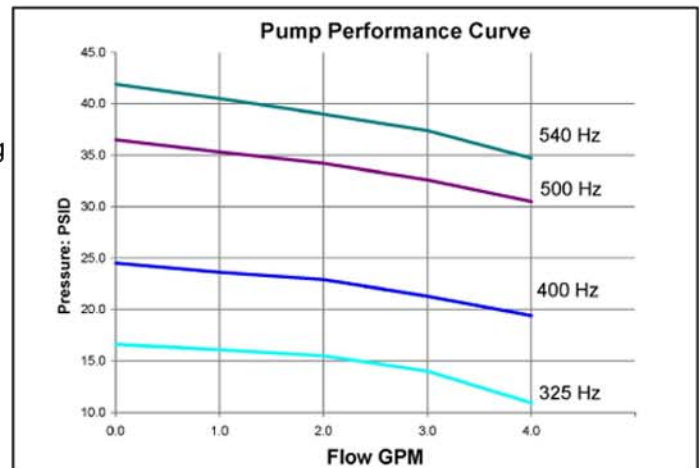
Thermal Switch: Resettable; requires external control

Thermal Fuse: Non-resettable

MAINTAINABILITY

MTBF: Predicted 185,873 operating hours

Service Free Operation: 15,000 operating hours



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