



Pressure Pump



IWG P/N: 9-30001-02 (Vertical Outlet)

IWG P/N: 09-300101-002 (Horizontal Outlet)

The Pressure Pump is a centrifugal pump that is driven by an electric motor. The pump motor is powered by 3-Phase 115/200 VAC.

The motor is a 4-pole design operating at 11,400 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 Pressure Pump is ideal for providing potable water system pressurization for VIP and Corporate Aircraft with expanded water tank capacities and high water use.

IWG PUMP SPECIFICATIONS

> 3 PHASE, 115/200 VAC > 400 Hz > Stainless steel construction > Light weight > 100,000 hour MTBF
 > Capable of proving uniform water system pressure at all operational altitudes

MECHANICAL

Overall Dimensions: 4.50+(114 mm) high x 4.44+(133 mm) wide x 6.06+(154 mm) deep
Net Weight (Dry): 6.75 lbs (3.1 kgs)

ELECTRICAL

Input Voltage: 3-Phase, 115VAC, 400 Hz
Nominal Current Draw: 1.5A per phase 2.0A Max
Electrical Interface: MIL-C-38999 Series II (27499E-T12-8P)

ENVIRONMENTAL

ALL TEST 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, Similarity

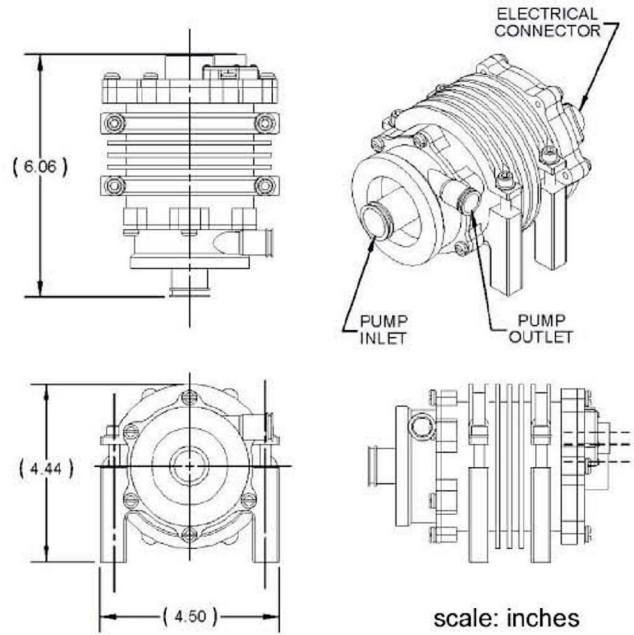
Operational Shock: 7.0, Cat B, Similarity

Vibration: 8.0, 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, Anaysis



PRESSURE/FLOW

Maximum Pressure: 57psig @ 0GPM

Minimum Pressure: 10psig @ 8GPM

Nominal Pressure: 50psig @ 5GPM

OVERHEAT PROTECTION

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

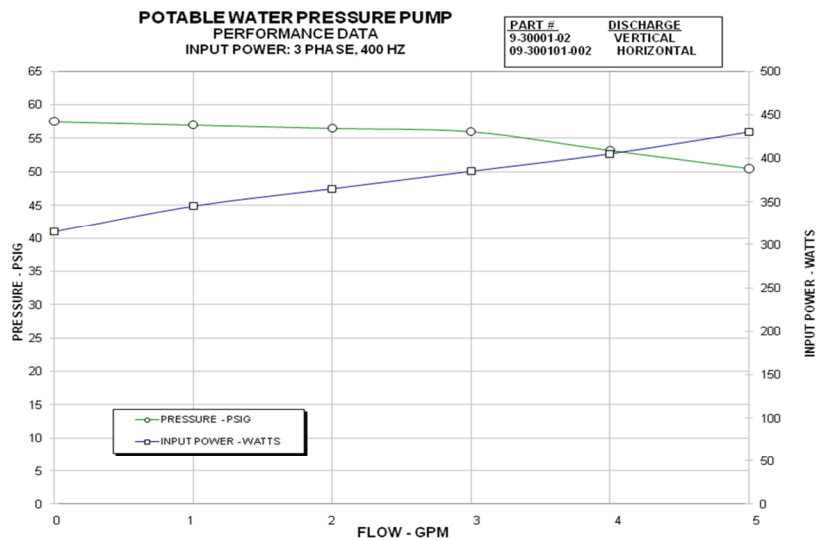
Thermal Switch: Resettable; requires external control

Thermal Fuse: Non-resettable

MAINTAINABILITY

MTBF: Predicted 185,873 operating hours

Service Free Operation: 15,000 operating hours



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