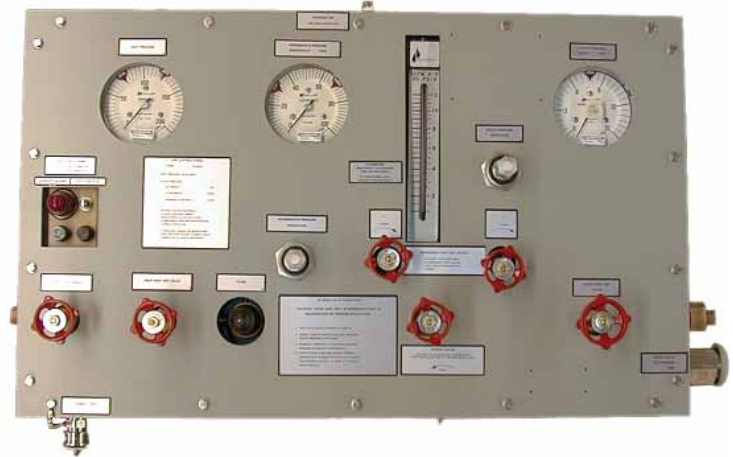


Low-Pressure (80 - 150 psig) Air Control Panel

The Model 4870 Low-Pressure Air Control Panel is designed to control the pressure and to monitor the flow rate and moisture content of clean, dry compressed air to electronic equipment and components. The panel is designed for either automatic or manual operation.

Air pressure is regulated by two (or, for the Type III, one) pressure regulators. Flow rate of air being delivered to the using equipment is measured by a direct-reading float-in-tube flowmeter. A humidity alarm system monitors the moisture content of the air passing through the panel and energizes a local alarm if the moisture level rises above a preset value of -15° F dew point at 80 psig.

Configurations other than those shown here may be special-ordered.



Operating Characteristics by Type:

| Type and Class | IA | IB | IC | IIA | IIB | III |
|-----------------------------|---------------------------|-------------|-------------|-------------------|-------------|--------|
| Inlet Pressure | 80- 150 psig | | | | | |
| Intermediate Pressure, psig | 50 ± 2 | 50 ± 2 | 50 ± 2 | 70 ± 2 | 70 ± 2 | 75 ± 2 |
| Outlet Pressure, psig | 0-10 ± 1/4 | 10-20 ± 1/4 | 20-30 ± 1/4 | 25-40 ± 1/4 | 40-60 ± 1/4 | n/a |
| Flow, scfm | 0-10 | 0-10 | 0-10 | 0-10 | 0-10 | 0-15 |
| Dew Point Alarm | -15° F @ 80 psig | | | | | |
| Relief Valve Setting | Outlet + 3 to 5 psi | | | Outlet + 10% psig | | |

Specifications:

Manufactured in accordance with NAVSHIPS Standard Drawing 803-1385925 Rev. C.

Bypass: A manual bypass valve is provided to allow continued operation in the event of malfunction of any of the automatic components.

Relief Valve: Preset adjustable relief valve protects downstream equipment from overpressurization.

Dimensions: 30" W x 17" H x 9-1/2" D.

Weight: 70 lb (110 lb crated).

Operation: Either automatic or manual, continuous or intermittent.

Power Requirements: 115 VAC, 60 Hz, single-phase, 1/4 amp.

Air Requirements: Clean, dry compressed air at 80 to 150 psig.

Filter: Prevents introduction of any particulates larger than 25 microns.

Calibration: External ports are provided for calibration of the dew point alarm system and of pressure gauges.

Controls & Indicators: Purge/test valve
Inlet, intermediate & outlet pressure gauges
Inlet & outlet shutoff valves
Humidity alarm system
Test switch
Emergency shutoff valves
Intermediate & outlet pressure regulators

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