



# GPC-7000-SPC-SO

## MODEL "GPC-7000-SPC-SO"

COMBINED WASH CONTROL and SPRAY ODOR CABINET  
for POLLUTION CONTROL CLEAN-IN-PLACE VENTILATORS

### GENERAL SPECIFICATIONS AND DESCRIPTION

Furnish Wash Control Cabinet Model "GPC-7000-SPC-SO \_\_\_\_\_" to house electrical and plumbing components for operation of the Eliminator Pollution Control Clean-In-Place Ventilator(s) and Duct Sump(s), if specified.

**CONTROLS:** The Wash Control Cabinet shall include a built-in Gaylord Command Center to control all functions of the exhaust and supply fans, the Extractor and Plenum Wash cycles, UVi Lamps, Pollution Control Ventilator, Spray Odor Control and Ducts Sumps, if specified. The control shall be a programmable logic controller (PLC) based unit with a touch screen display interface. The touch screen shall include the "START FAN" and "STOP FAN" buttons and a "MENU" button to easily access all programming functions. The display shall show all current operating modes such as "FAN ON", "FAN OFF", "EXTRACTOR WASH ON", etc.

Programming features shall include:

1. Setting the duration and frequency of each Extractor (Face and Internal Passages of Extractors) and Plenum Wash Cycle for each Ventilator section independently, based upon type and duration of cooking.
2. Setting the duration of each ESP Cell Wash Cycle for each Ventilator section independently, based upon type and duration of cooking.
3. Optional setting to automatically "START FAN" and "STOP FAN" at specific times for each day of operation.
4. Optional lockout of all operations for days not operating.

The Gaylord Command Center shall include volt-free contacts for optional; 1) interfacing the exhaust and supply fans with a building management system or other control circuits to monitor the system and/or to allow remote START and STOP OF exhaust fans, and 2) for interfacing with a fire extinguishing system to send a signal to the building fire alarm system and/or notify the building management system of a fire extinguishing system discharge. The Gaylord Command Center shall also monitor and display status of; 1) "UVi System On", "UVi Lamp Failure", "UVi Standby"; 2) Total Hours of UVi Lamp Operation, 3) "ESP Fault", "ESP OK"; 4) Low Detergent notification, if option is specified. In addition, the control shall monitor the "Autostart" sensors mounted in the Ventilator(s), if equipped, and automatically start the exhaust and supply fan(s) when cooking occurs when the fans are off and if the temperature is above the sensor's set point. The Gaylord Command Center shall be equipped with a battery back-up to hold the clock and memory for programming functions.

**PLUMBING:** Plumbing components shall consist of a line strainer, shut-off valve, reduced pressure principle device backflow preventer, pressure/temperature gauge, detergent pump, a detergent container, spray odor catalyst pump, and a spray odor catalyst drum. Required water solenoid valves are provided by Gaylord and are mounted at each Ventilator section.

**INTERCONNECTIONS:** All plumbing and electrical interconnections between the Wash Control Cabinet, the building services and the Ventilators shall be the responsibility of the applicable trades. Backflow certification by field plumber.

**CONSTRUCTION:** The Wash Control Cabinet shall be of all stainless steel construction, not less than 18 gauge, type 300 series. All exposed surfaces shall be a number 4 finish. The use of aluminized steel or galvanized steel is not acceptable. The Wash Control Cabinet shall have welded corners and hinged doors to the plumbing and electrical compartments. Electrical compartment shall be watertight to protect against direct hose spray.



### APPLICATION

For use with Eliminator Pollution Control Clean-in-Place Ventilators with or without UVi and Gaylord Duct Sumps (GDS).

### NUMBER REQUIRED

One control cabinet can be used for up to five (5) Ventilator sections. Any number of exhaust fans and supply fans can be connected to the Wash Control Cabinet, if simultaneous operation is desired. If there are two or more groups of ventilators, each with their own exhaust fan, and independent operation of the fans is desired, consult factory for options.

### FEATURES

- Touch Screen Operation, Programming and Display
- Individual Wash Settings for each Ventilator Section, Extractor (Face and Internal Passages of Extractors) and Plenum, based upon Cooking Type
- Autostart Capable to Meet International Mechanical Code (IMC)
- Remote Fan Start/Stop from Building Management System
- Monitor Fire Extinguishing System Discharge
- Built-in Time Clock
- Built-in Back Flow Preventer

### OPTIONAL EQUIPMENT:

**Low Detergent Monitor** - The Wash Control Cabinet shall include a detergent flow switch to monitor detergent levels and display a message on the Gaylord Command Center to notify of low detergent.

**Light Switch** - The Wash Control Cabinet shall include a built-in light switch for interconnection to the ventilator lighting circuit.

**Security Access** - The Wash Control Cabinet door shall be equipped with keyed latch to prevent unauthorized access to the controls.

**Trim Ring** - The Wash Control Cabinet shall include a full perimeter one piece adjustable trim ring.

**ACCEPTANCE & APPROVALS:** The Wash Control Cabinet shall be ETL Listed and comply with all requirements of the International Plumbing Code (IPC), Uniform Plumbing Code (UPC), and the National Electrical Code (NEC).



## GAYLORD INDUSTRIES

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**Cabinet Size Chart**

Equipment	"X" (Inches)	"Y" (Inches)
GPC-7000-SPC-SO	40	36

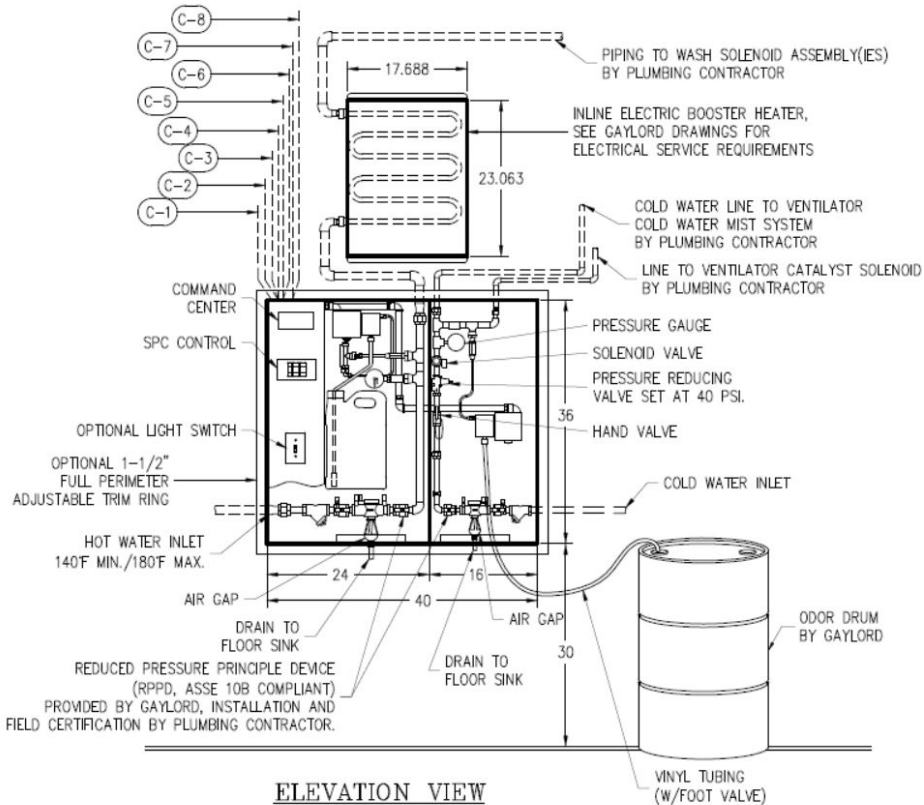
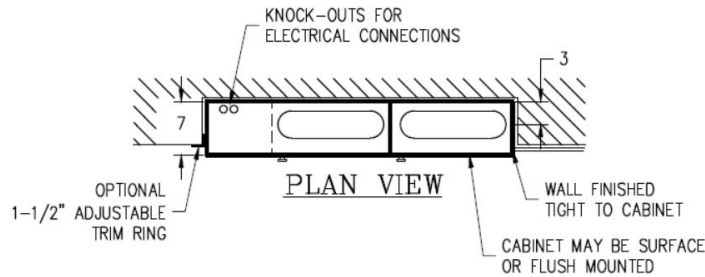
**HOT WATER REQUIREMENTS:** Provide a hot water supply to the H.W. Inlet on the Wash Control Cabinet. Water pressure at the inlet of the Wash Control Cabinet: 40psi min. – 80psi max. Water temperature: 140°F min, - 180°F max.

**PIPE SIZE**

The Inlet pipe size may be from 1" to 1-1/4" depending upon equipment being served by this control cabinet. Consult factory for pipe sizes.

**ELECTRICAL REQUIREMENTS**

120 volt, 60Hz, 20 amp



**ESP WASH CONTROL CABINET WIRING NOTES**

- (C-1) (2) WIRES AND GROUND FROM WASH CONTROL CABINET TO SUPPLY VOLTAGE SERVICE BY ELECTRICAL CONTRACTOR. (120V/20AMP)
- (C-2) (2) WIRES FROM WASH CONTROL CABINET TO EXHAUST FAN MAGNETIC STARTER. (2) WIRES FROM CONTROL CABINET TO SUPPLY FAN MAGNETIC STARTER. WIRES BY ELECTRICAL CONTRACTOR.
- (C-3) (2) WIRES TO FIRE SUPPRESSION SYSTEM MICRO SWITCHES BY ELECTRICAL CONTRACTOR.
- (C-4) (3) WIRES AND GROUND, FOR EACH REMOTE SOLENOID ASSEMBLY, FROM WASH CONTROL CABINET UP TO (5) WASH SOLENOID ASSEMBLIES, MAY BE PROVIDED. WIRES BY ELECTRICAL CONTRACTOR.
- (C-5) (3) WIRES AND GROUND, FOR DCA CONTROLS, FROM WASH CONTROL CABINET TO VENTILATOR(S) BY ELECTRICAL CONTRACTOR.
- (C-6) (8) WIRES AND GROUND, FOR UVI AND SPC SYSTEM, FROM WASH CONTROL CABINET TO VENTILATOR(S) BY ELECTRICAL CONTRACTOR.
- (C-7) (2) WIRES AND GROUND FROM EACH LIGHT SWITCH TO SUPPLY VOLTAGE SERVICE BY ELECTRICAL CONTRACTOR.
- (C-8) (2) WIRES FROM EACH LIGHT SWITCH TO LIGHTS IN VENTILATOR BY ELECTRICAL CONTRACTOR.

The manufacturer reserves the right to modify the materials and specifications resulting from a continuing program of product improvement or the availability of new materials.