MODEL "GPC-7000"

WASH CONTROL CABINET for
CLEAN-IN-PLACE VENTILATORS,
POLLUTION CONTROL UNITS, and
DUCT SUMPS

GENERAL SPECIFICATIONS AND DESCRIPTION

Furnish Wash Control Cabinet Model "GPC-7000-_____" to house electrical and plumbing components for operation of the Clean-in-Place Ventilator(s), Pollution Control Unit(s) and/or 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 if equipped, Pollution Control Units and/or 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 of each Extractor Wash Cycle (Face and Internal Passages of Extractors) for each Ventilator section independently, based upon type of cooking.
2) Setting the duration of each Plenum Wash Cycle for each Ventilator section independently, based upon type of cooking.
3) Setting the frequency of Extractor Wash Cycle (Face and Internal Passages of Extractors) for each ventilator section, based upon duration of Hours of Cooking Operation.
4) Setting the frequency of Plenum Wash Cycle for each ventilator, based upon duration of Hours of Cooking Operation.
5) Optional setting to automatically "START FAN" and "STOP FAN" at specific times for each day of operation.
6) Setting 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 Safety Interlock Activated", 2) Total hours of UVi Lamp operation, 3) 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) if 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, and a detergent container. Required water solenoid valves are provided by Gaylord and are mounted at each Ventilator section.

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.

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

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.

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.

APPLICATION
For use with Clean-in-Place Ventilators with or without UVi, Gaylord Pollution Control Units (RSPC), and Gaylord Duct Sumps (GDS).
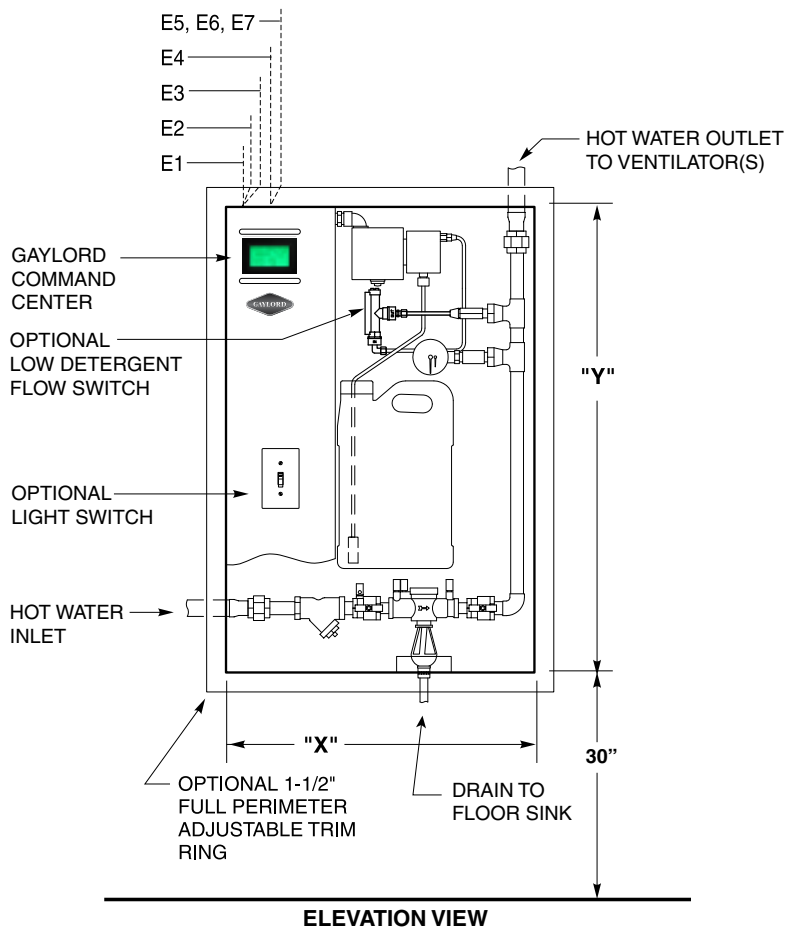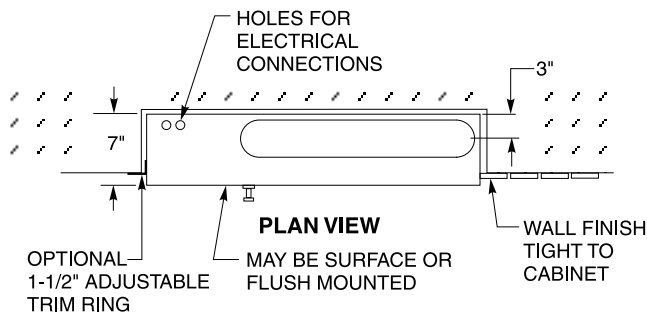
NUMBER REQUIRED
One control cabinet can be used for up to 8 Ventilator sections. Any number of exhaust fans and supply fans can be connected to the Wash Control Cabinet, if simultaneous operation is desired. If there are two or more groups of ventilators, each with their own exhaust fan, and independent 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)
- Remotely Start/Stop Fans from Building Management System
- Monitor Fire Extinguishing System Discharge
- Built-in Time Clock
- Built-in Back Flow Preventer

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GAYLORD INDUSTRIES

PLAN VIEW

HOLES FOR ELECTRICAL CONNECTIONS

3"

7"

OPTIONAL 1-1/2" ADJUSTABLE TRIM RING

MAY BE SURFACE OR FLUSH MOUNTED

WALL FINISH TIGHT TO CABINET

ELEVATION VIEW

E5, E6, E7

E4

E3

E2

E1

HOT WATER OUTLET TO VENTILATOR(S)

GAYLORD COMMAND CENTER

OPTIONAL LOW DETERGENT FLOW SWITCH

OPTIONAL LIGHT SWITCH

HOT WATER INLET

"Y"

"X"

30"

OPTIONAL 1-1/2" FULL PERIMETER ADJUSTABLE TRIM RING

DRAIN TO FLOOR SINK

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 3/4" 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 or
220 volt, 50Hz, 20 amp

CABINET SIZE CHART		
Equipment	"X" (Inches)	"Y" (Inches)
"ELXC" Clean-in-Place Ventilators	24	36
"CG3" Clean-in-Place Ventilators Pollution Control Units Gaylord Duct Sumps	34	48

ELECTRICAL LEGEND

E1	120VAC 50/60Hz Service or 220VAC 50/60Hz Service
E2	Two Wires to Magnetic Starter(s) For Exhaust and Supply Fans
E3	Two Wires to Fire Suppression System
E4	Up to Fifteen Wires and ground to Wash Solenoids at Ventilators
E5	Two Wires and ground, for "Autostart" to Ventilator(s)
E6	Optional - Five Wires and ground, for UV System to Ventilator(s)
E7	Optional - Up to Thirteen Wires and ground, for Pollution Control Unit(s)
E8	Optional - Two Wires and ground, from Light Switch to Supply voltage service.
E9	Optional - Two Wires and ground, from Light Switch to Lights in Ventilator.
E10	Optional - Two Wires From Volt Free Contacts To Building Management System (BMS) to Control Exhaust Fan(s) (If Specified, E2 Not Used.)
E11	Optional - Two Wires From Volt Free Contacts To BMS to Control Supply Fan(s) (If Specified, E2 Not Used.)
E12	Optional - Two Wires to BMS To Monitor Fire Cycle If Specified.