EFFECTIVE DATE 05-10

THE GAYLORD TECHNICAL MANUAL

FOR THE C-6000-D CONTROL CABINET

GAYLORD INDUSTRIES

10900 S.W. AVERY STREET • TUALATIN, OREGON 97062 U.S.A.
800-547-9696 • 503-691-2010 • FAX: 503-692-6048 • email: info@gaylordusa.com

GAYLORD INDUSTRIES

World Headquarters: 10900 SW Avery Street • Tualatin, Oregon 97062 U.S.A.

To Our Customers. . .

Congratulations on your recent purchase of a Gaylord kitchen exhaust hood system. We are proud to be able to provide you with a quality product that incorporates the latest engineering concepts and is a result of over 60 years of experience in the foodservice kitchen exhaust industry.

If you have other Gaylord equipment such as a Gaylord Ventilator, Utility Distribution System, Quencher Fire Protection System, or Roof Top Air Handling Equipment, etc., please refer to the corresponding supplementary equipment manuals.

If you have further questions, please call us toll free at 1-800-547-9696 or email:info@gaylordusa.com. We are more than happy to help.

Sincerely,
Gaylord Industries

STREET ADDRESS: 10900 S.W. Avery Street, Tualatin, Oregon 97062 U.S.A.
PHONE: 503-691-2010 • 800-547-9696 • **FAX:** 503-692-6048 • **email:** info@gaylordusa.com • www.gaylordusa.com

TABLE OF CONTENTS

ADDITIONAL COPIES $15.00

This page intentionally left blank.

GENERAL DESCRIPTION

The **C-6000-D** Control Cabinet is designed to control one or more of the following Gaylord products;

- CG3 Ventilators
- CG3-UV Ventilators
- CG3-UV-SPC Ventilators
- RSPC-ESP Pollution Control Units
- Gaylord Duct Sumps (GDS)

The C-6000-D Command Center will:

- Start/Stop Exhaust and Supply Fan(s)
- Control Wash system in Ventilators, Pollution Control Units, and/or Gaylord Duct Sumps
- Start/Stop Ultraviolet Lamps (UV)
- Start/Stop Electrostatic Cells (ESP or SPC)
- Interface with the Fire Protection (FP) system
- Interface with a Building Management System (BMS)
- Connect to an Autostart device, Gaylord model “TST”, if applicable

MODEL NUMBER DESCRIPTION

The **C-6000-D** Command Center is typically installed in a Gaylord Plumbing Cabinet (GPC). The model number for the Gaylord Plumbing Cabinet is made up of an alphabetic prefix followed by a series of alphabetic and/or numeric suffixes to designate the type of control and various options. Sequence of model numbers is as follows.

1._____	2._____	3._____	4._____	5._____	6._____	7._____	8._____	9._____	10.____	11.____
Prefix	Control #	UV	# Sequences	Low Detergent	Cold Water Mist	Light Switch	Security Access	Trim Ring	Pipe Size	220 Volts

Explanation of Pre-Fixes and Suffixes

1. GPC
GPC.....Gaylord Plumbing Cabinet

2. Control #
6000-D.....Utilizes C-6000-D Control

3. UV (If Applicable)
UV.....Has inputs and outputs for Ultraviolet light control (UV)

4. # Sequences (# Wash Solenoids)
__.....Leave BLANK for 1 plumbing sequence
S# .....Has # of plumbing sequences indicated to wash at different times
Ex) S2 – Has 2 plumbing sequences
S#/S#.....On Main Cabinet that has a Sub Panel. The first part (S#), indicates the Total number of plumbing sequences controlled by the control. The second part (S#), indicates the number of plumbing sequences in the Main Cabinet. Ex) S5/S2: Controls a total of 5 plumbing sequences. 2 plumbing sequences in the main cabinet, and 3 plumbing sequences in the Sub Panel.

5. Low Detergent
LD .....If cabinet has a Low Detergent Flow switch installed

6. Cold Water Mist
CM .....If cabinet has a Cold Water Mist plumbing loop installed

7. Light Switch
LS .....If cabinet has a Light Switch installed

8. Trim Ring
TR.....If cabinet has a Trim Ring installed

9. Security Access
SA.....If cabinet has Security Access (Keyed Lift and Turn latch)

10. Plumbing Loop Size
1.00.....Indicates Plumbing Loop Size (diameter of pipe) in inches

11. 220 Volts
220V .....Indicates Control is designed to be connected to 220VAC Supply Voltage

Model Number Example:
GPC-6000-D-UV-S3-LD-CM-LS-TR-SA-1.25-220V

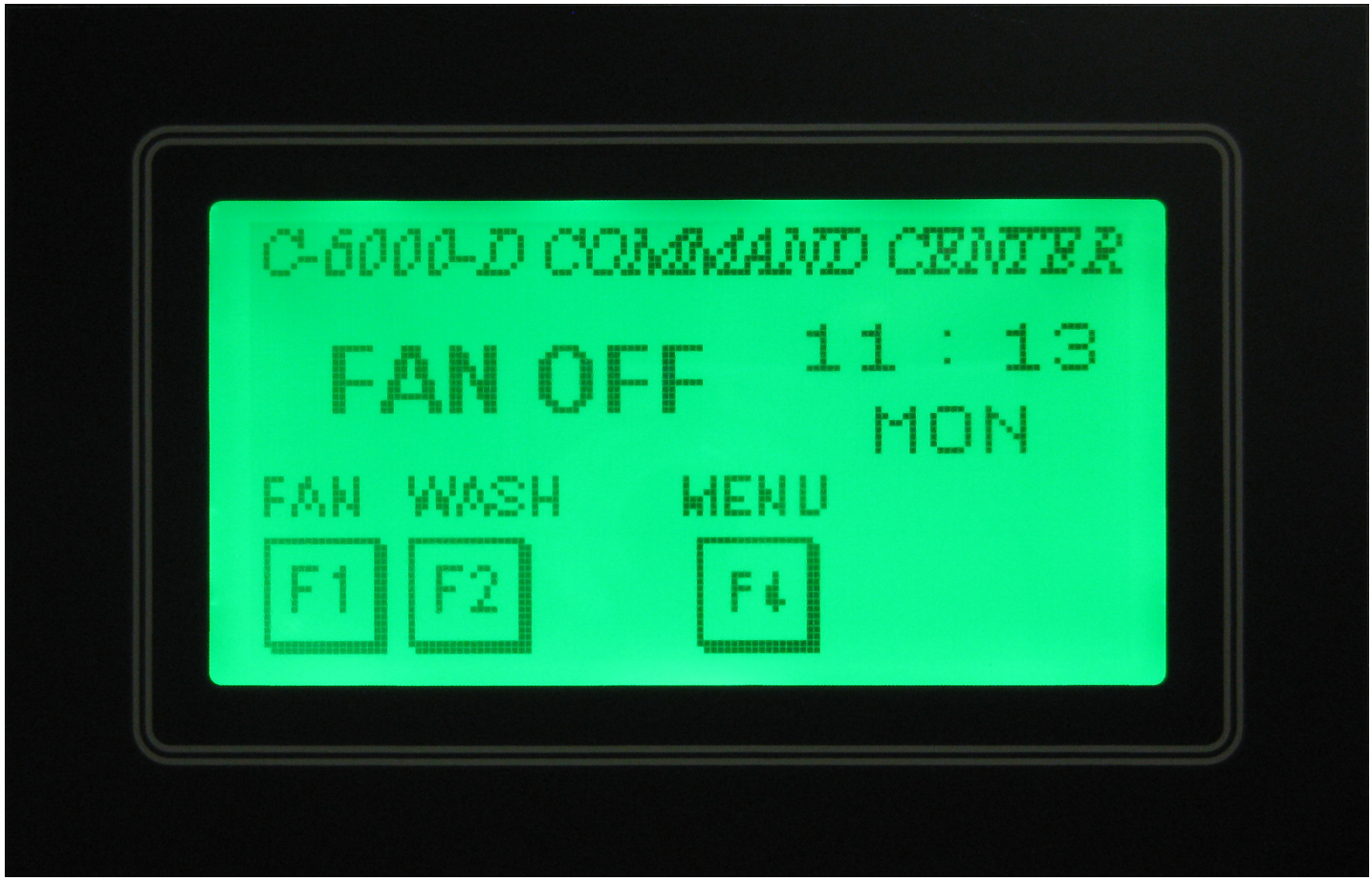
Sub Panel Model Number Example:
GPC-SUB-S3-LD-1.25

STARTING THE C-6000-D COMMAND CENTER

The **C-6000-D** can be started through one of three options:

1. Manually - - Press the **"F1" (FAN)** button
2. Autostart - - Autostart thermostats in the ventilator activate the **C-6000-D**
3. Remotely - - Remotely start the **C-6000-D** from a switch or BMS

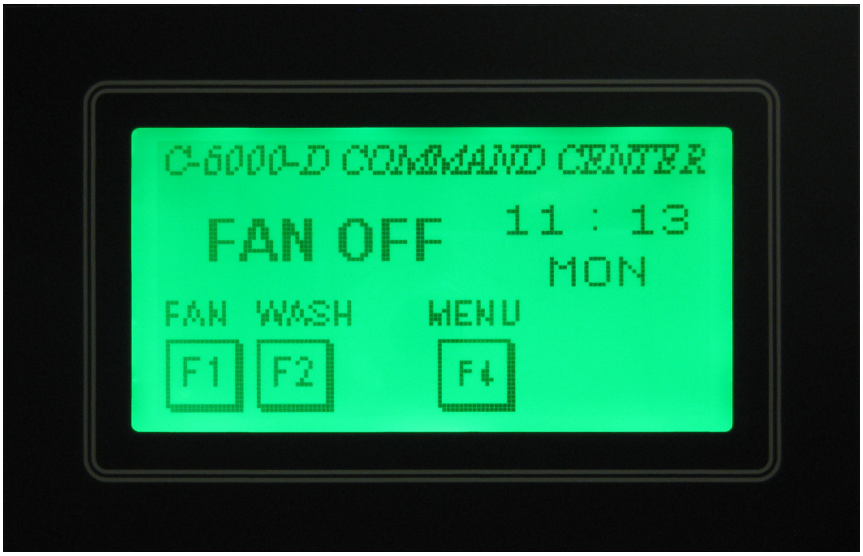
* See the following pages for more details on each of these options



Typical Sequence of Operations for C-6000-D				
Mode	**Electric Damper**	**Exhaust Fan**	**Supply Fan**	**Wash**
Fan Off (Stand by)	Closed	Off	Off	Off
Fan On	Open	On	On	Off
Wash On	Closed	Off	Off	On
External Fire (Ansul) Activated	Open	On	Off	On (After 60 Sec.)
Internal Fire Thermostat Activated	Closed	Off	Off	On

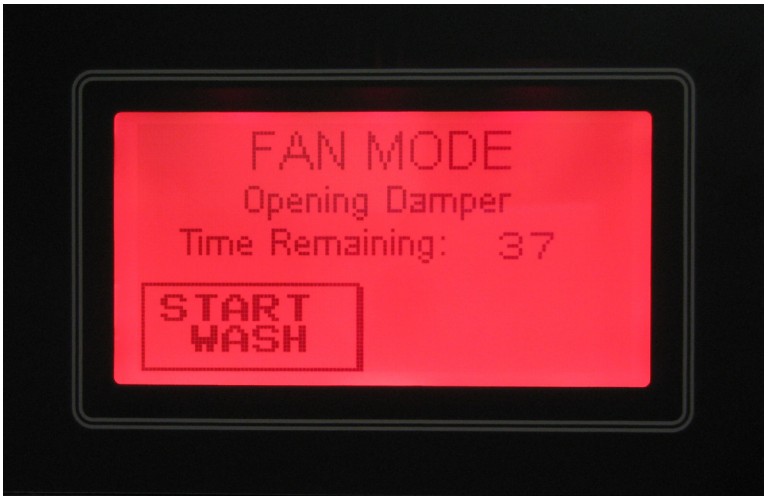
MANUAL START

To Start the Fan(s) press the **“F1” (FAN)** button.



Pressing the **“F1” (FAN)** button will result in:

1. Supply Fan On Starts immediately
2. The Electric Damper opens (after approximately 45 seconds)



After a 45 second delay:

1. Exhaust Fan Starts
2. UV Lamps On (if applicable)
3. ESP or SPC Cells On (if applicable)

Description:

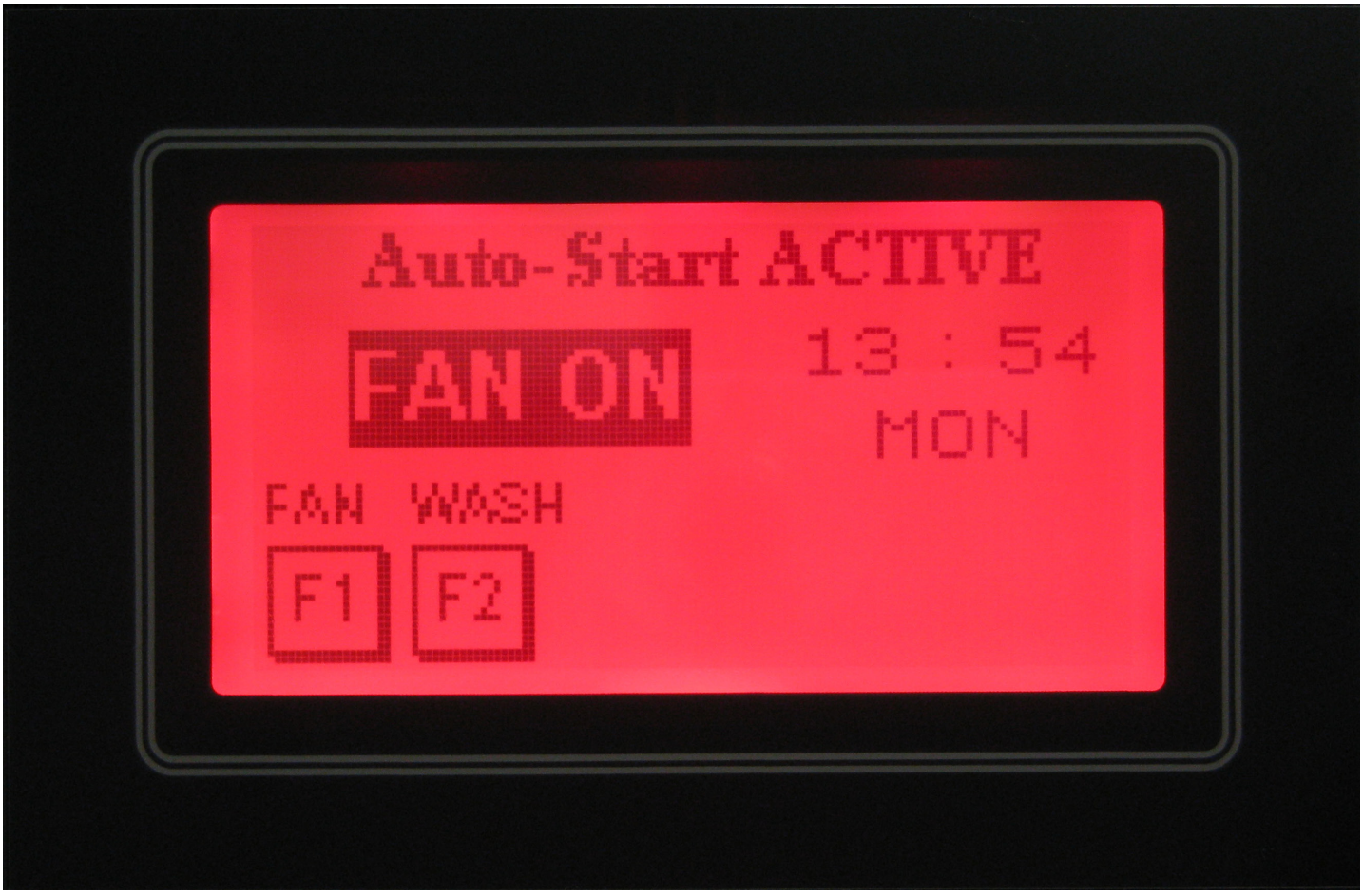
The **C-6000-D** is designed to start the Exhaust and Supply Fan(s) automatically when cooking starts, if the ventilator it is connected to is equipped with Autostart thermostats, Gaylord model “TST”. The Autostart thermostats (TST’s) are preset at the factory to 90°F, and may be adjusted in the field, if necessary.

Code Requirements:

Some municipalities require the exhaust fan to start automatically whenever cooking operations occur, to comply with IMC 507.2.1.1. This code requires the exhaust fan to be interlocked with the cooking equipment such that it will start whenever cooking operations occur. This can be accomplished with Temperature Sensing Thermostat(s) in the ventilator, Gaylord model “TST”.

Operation:

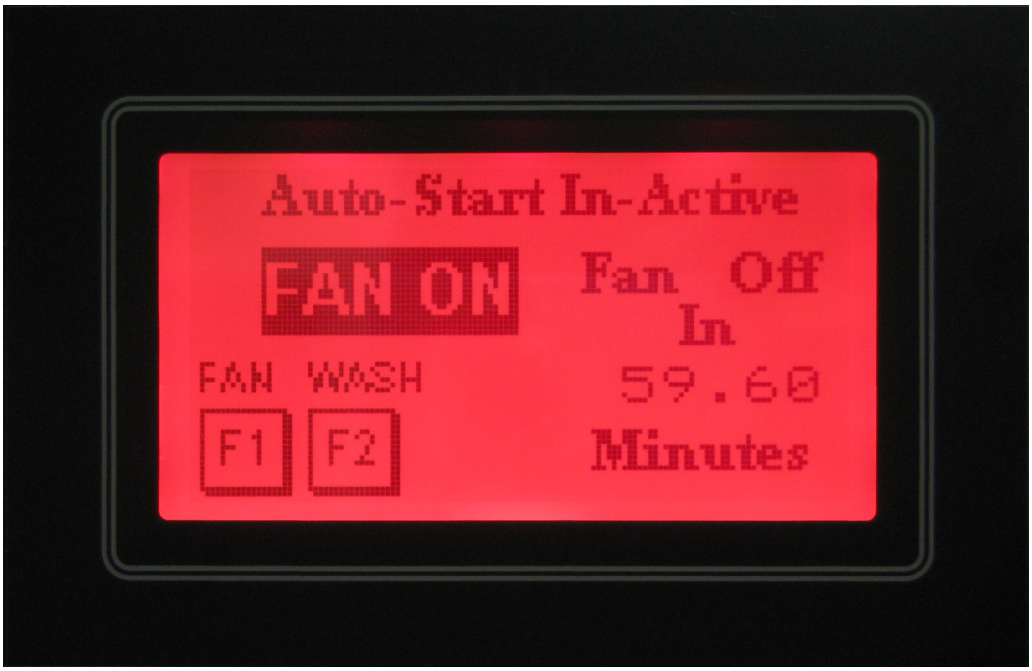
Whenever the temperature in the ventilator canopy is above 90°F, and the **C-6000-D** is OFF, the Exhaust and Supply Fan(s), UV Lamps (if applicable), ESP or SPC Cells (if applicable) will start automatically in “Autostart” mode, and display the text shown below.



Automatic Shutdown:

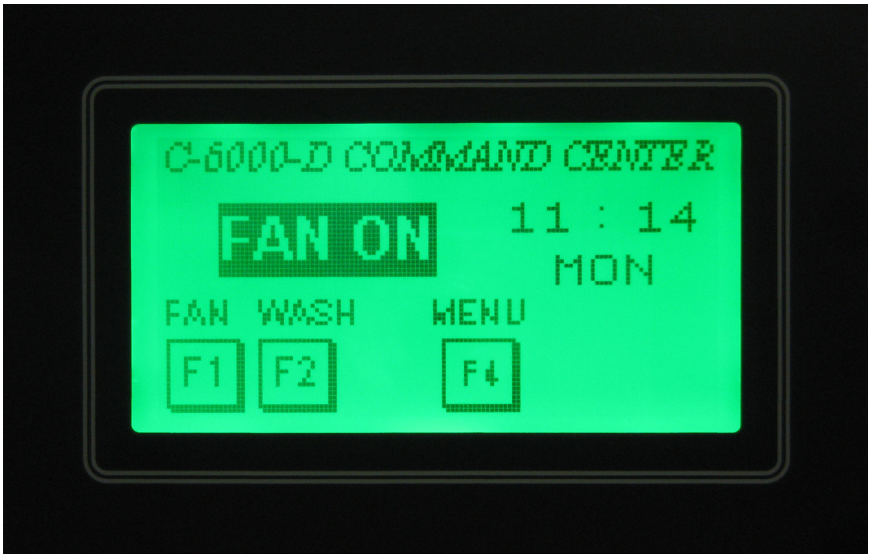
After the temperature in the ventilator canopy drops below 90°F, the **C-6000-D** will start to countdown from 60 minutes. After 60 minutes the Exhaust and Supply Fan(s), and UV Lamps will shut off automatically. Once the countdown has started:

1. The Fan(s), UV, and ESP or SPC cells can be started by pressing the **"F1" (FAN)** button and cancel the countdown.
2. The Fan(s), UV, and ESP or SPC cells can be stopped by pressing the **"F2" (WASH)** button and cancel the countdown, and Start the Wash.



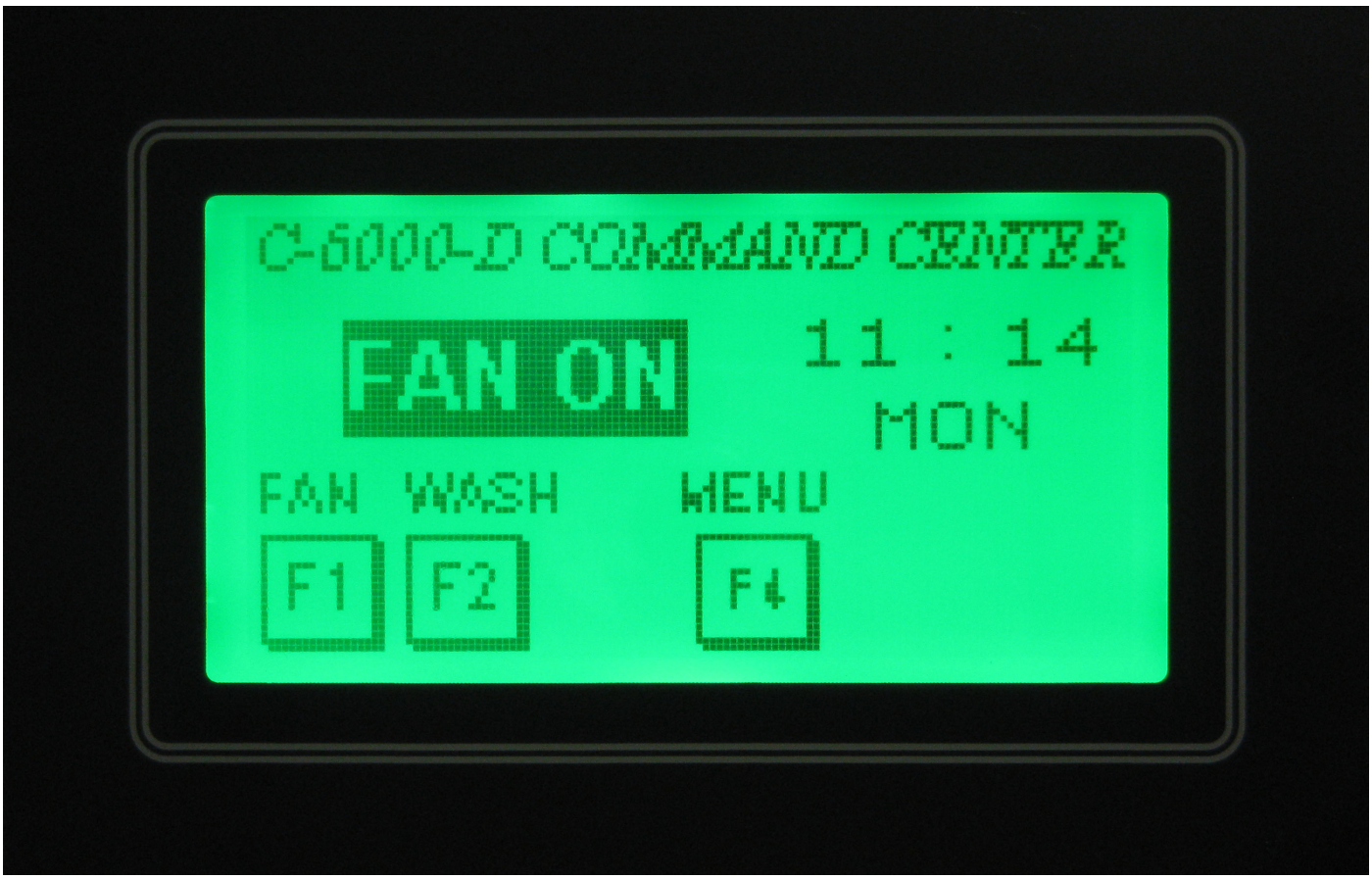
Note:

The Fans and UV should be started manually normally, by pressing the **"F1" (FAN)** button. The Autostart is provided as a back-up when the user forgets to start the Fans before starting cooking. While in "Autostart" mode, pressing the **"F1" (FAN ON)** button will put the **C-6000-D** back into a normal "FAN ON" mode.



Description:

The **C-6000-D** can be started remotely, from a Fan On/Off Switch located elsewhere, or from a Building Management System (BMS). This is accomplished by connecting terminals **"21"** and **"27"** to a "Remote" switch. Please note that terminal **"21"** has 24VDC on it. Refer to the **C-6000-D** Internal Wiring diagram for more details.



Operation:

When the **C-6000-D** is Remotely Started, the Exhaust and Supply Fan(s), UV Lamps and ESP/SPC Cells will start.

Note:

If the **C-6000-D** has been started "Remotely", the Fan(s), UV, and ESP/SPC Cells cannot be shut off at the **C-6000-D**. The **C-6000-D** must be shut off "Remotely" by removing power from terminal **"27"**. When power is removed from terminal **"27"**, the **C-6000-D** will start to Wash.

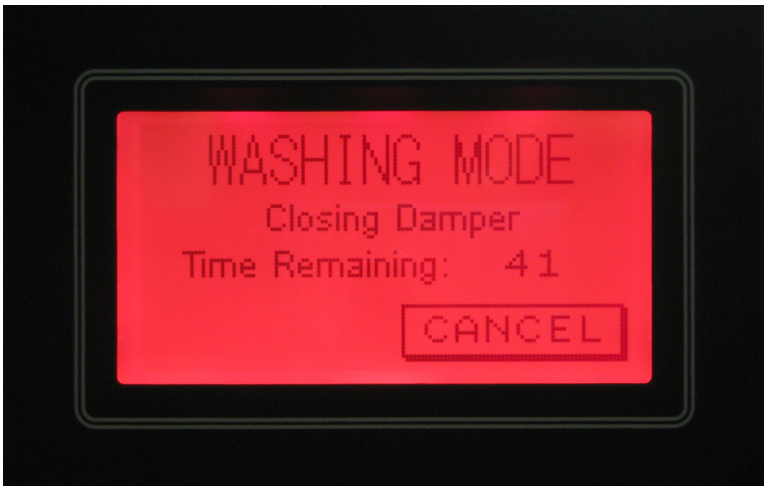
STOPPING THE EXHAUST/SUPPLY FAN(S) / STARTING WASH

To Stop the Fan(s) and Start the Wash press the **"F2" (WASH)** button. The **C-6000-D** can also be set to start the Wash Automatically. To do this set the **C-6000-D** to run in "AutoMode" and setting the times to Wash in the Menu. See "Programming Instructions" for information on setting up the "AutoMode".

CAUTION: *The cooking equipment must be shut off prior to shutting off the exhaust fan. Failure to do this will cause excessive heat buildup and could cause the surface fire protection system to discharge.*

Pressing the **"F2" (WASH)** button will result in:

1. Exhaust Fan Off
2. Supply Fan Off
3. Electric Dampers Close (if applicable)
4. UV Lamps Off (if applicable)
5. ESP or SPC Cells Off (if applicable)



After a 45 second delay:

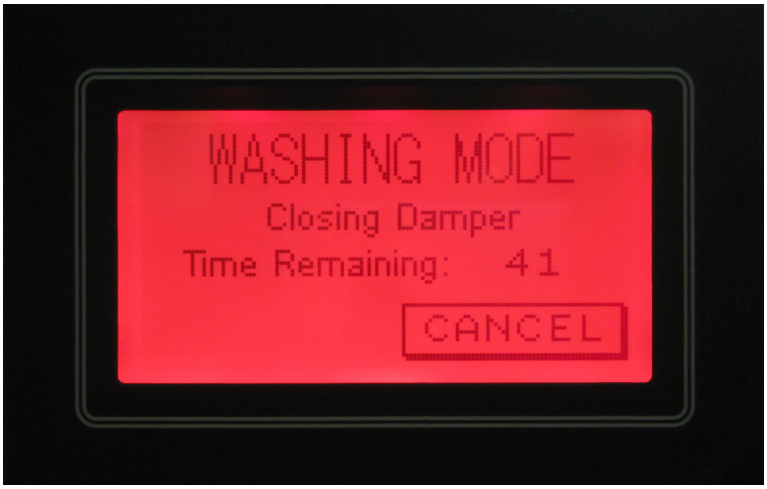
1. Wash Starts

The **C-6000-D** can be programmed to control up to 13 Wash Sequences (solenoids). The **C-6000-D** can control **"HOOD"** wash cycles and **"ESP"** cycles, or a combination of both. The length of each wash cycle can be set from 3 to 9 minutes. The delay between wash sequences can be set from 1 to 99 minutes. The delay is designed to allow time for the Hot Water to reheat if necessary and allow time for the ESP or SPC cells to soak between wash cycles. To Start the Wash, press the **"F2" (WASH)** button. The Fan(s) cannot be restarted until the entire wash cycle has completed, or the wash cycle has been canceled. To Stop the Wash before the wash cycle has completed, press the **"CANCEL"** button. Refer to the "Programming Instructions" on how to adjust the times.

Recommended Wash Cycle Lengths

Type of Cooking	Length of Wash Cycle
Light-Duty	3
Medium-Duty	5
Heavy-Duty	9

NOTE: The ventilator wash system is designed to remove daily accumulations of grease within the extraction chamber. If the ventilator is not washed a minimum of once during a cooking day, a grease buildup could accumulate which the wash system cannot remove. If this occurs, it is recommended that the ventilator be put through several wash cycles by pushing the **"F2" (WASH)** button on the Command Center. If this does not remove the grease, it will be necessary to remove the grease manually by using a scraping tool, such as a putty knife, or retain the services of a commercial hood cleaning service to steam clean or pressure wash the system.



HOT WATER REQUIREMENTS

For proper operation of the wash system there must be adequate water pressure and temperature. There is a pressure/temperature gauge inside the control cabinet.

Water Pressure: 40 psi min. - 80 psi max.

Water Temperature: 140°F min. - 180°F max.

WASH MODES

"HOOD" Wash Description:
A "HOOD" Wash cycle is used for any water wash ventilator. It will wash using Hot Water and detergent. If there is more than one Sequence (solenoid), the **C-6000-D** will delay between each Sequence, then the 2nd Wash Sequence will start and run. After all of the washes are complete the **C-6000-D** will display a **"FAN OFF"** message. Refer to the table for a typical "HOOD" Wash.

"HOOD" Wash Cycle (Typical)	
Description	**Length of Wash Cycle (Minutes)**
Wash #1	3
Delay	1
Wash #2	5
Total Time	9

WASH SEQUENCE #1

DELAY

WASH SEQUENCE #2

FAN OFF

WASH MODES

"ESP" Wash Description:
An "ESP" Wash cycle is used for CG3-UV-SPC ventilators or RSPC-ESP Pollution Control Units. An "ESP" Wash uses a "Wash-Delay-Wash-Delay-Rinse" cycle. This is designed to Wash the ESP or SPC cells with Hot Water and Detergent, allow to soak, then Wash again, allow to soak, then Rinse with Hot Water only. The length of the Wash cycles and the Delay are adjustable. The length of the Rinse is fixed at 3 minutes. After all of the washes are complete the **C-6000-D** will display a **"FAN OFF"** message. Refer to the table for a typical "ESP" Wash.

"ESP" Wash Cycle (Typical)	
Description	**Length of Wash Cycle (Minutes)**
Wash - 1st Wash	3
Delay	1
Wash - 2nd Wash	3
Delay	1
Rinse	3
Total Time	11

WASH #1

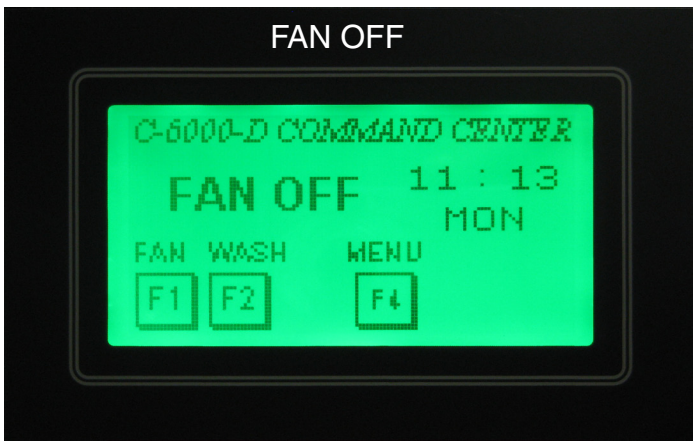
DELAY

WASH #2

DELAY

RINSE

FAN OFF



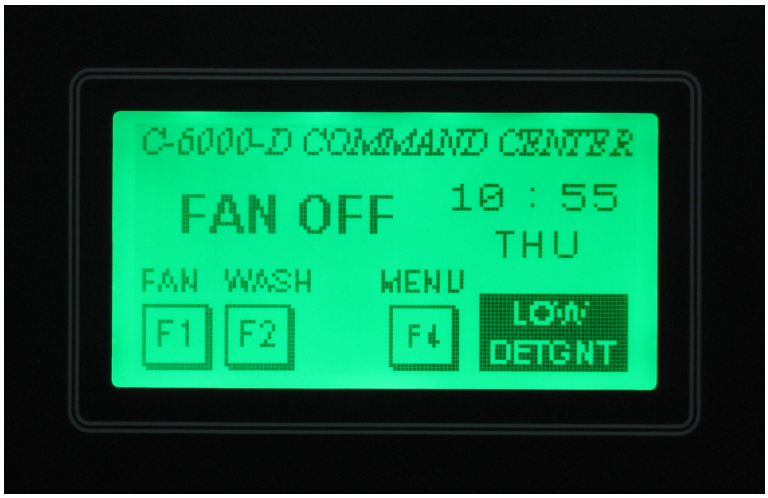
Low Detergent (Option)

Some control cabinets are equipped with a low detergent flow switch. The control cabinet model number would have the letters **"LD"** in the model number, if the it includes a low detergent flow switch

When the detergent is low:
A message will flash indicating **"LOW DETGNT"** during the wash cycle. This indicates that the detergent is low and/or the detergent pump is not pumping

When the detergent is low:
A message will flash indicating **"LOW DETGNT"** after the end of all of the wash cycles. This indicates that the detergent is low and/or the detergent pump is not pumping. To clear the **"LOW DETGNT"** message, fill the detergent, and run the **C-6000-D** through a Wash cycle. It may be necessary to prime the pump, refer to the "Detergent Pump Operation".

Note:
If the detergent tank is filled with water or detergents other than Formula G-510, the detergent flow switch will act as if there is no detergent. The viscosity of water and other detergents is too low to be detected by the low detergent flow switch



EXTERNAL FIRE MODE

Fire Protection System - Activated

Description:

The **C-6000-D** should be wired to the Fire Protection System for the Ventilator(s) and/or Pollution Control Unit(s) it is controlling. A set of normally open contacts in the Fire Protection System needs to be wired to terminals **"4"** and **"FS"** in the **C-6000-D**, refer to the **C-6000-D** Internal Wiring Diagram for more details. Please note that terminal **"4"** has 120VAC on it. If the Surface Fire Protection System for the Ventilator(s) is activated the **C-6000-D** will be placed in an "External Fire" mode.

Operation:

In an "External Fire" mode, the **C-6000-D** will:

1. Start Exhaust Fan
2. Shut off Supply Fan
3. Run water in ventilator(s) and/or Pollution Control Unit(s) after a 60-second delay
4. Close Alarm Contacts **"A1"** & **"A2"** - refer to **C-6000-D** Terminals for more details
5. Open Alarm Contacts **"Q1"** & **"Q2"** - refer to **C-6000-D** Terminals for more details

Note:

The Fan(s) cannot be restarted until the microswitch in the Fire Protection System for the Ventilator(s) and/or Pollution Control Unit has been reset. After the microswitch has been reset, the Fan(s) can be restarted by pressing the **"F1" (FAN)** button.

INTERNAL FIRE MODE

Thermostat - Activated

Description:

If the ventilator(s) connected to the **C-6000-D** are equipped with thermostat(s) at the duct/plenum to detect fire, and a fire is detected at the Exhaust Duct collar, or if the thermostat in the Pollution Control Unit detects a fire, the **C-6000-D** will go into an "Internal Fire" mode. Refer to the appropriate Gaylord Ventilator Technical Manual, or Gaylord Pollution Control Unit Technical Manual for thermostat location and temperature setting.

1st Screen

2nd Screen

3rd Screen

Operation:

In an "Internal Fire" mode, the **C-6000-D** will:

1. Shut off Exhaust Fan
2. Shut off Supply Fan
3. Run water in ventilator(s) and/or Pollution Control Unit(s) immediately
4. Close Alarm Contacts **"A1"** & **"A2"** - refer to **C-6000-D** Terminals for more details
5. Open Alarm Contacts **"Q1"** & **"Q2"** - refer to **C-6000-D** Terminals for more details

INTERNAL FIRE MODE

Thermostat - Activated

Cool Down Cycle:

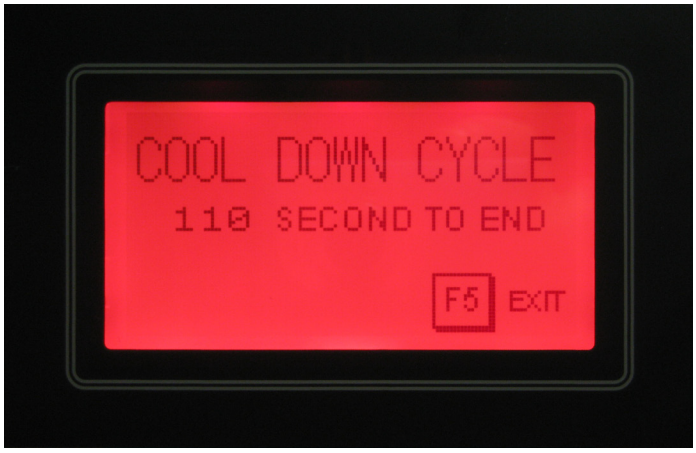
After the temperature at the thermostat(s) cools below its' activation temperature, the **C-6000-D** will enter a "Cool Down Cycle" for 2 minutes. The **C-6000-D** will count down from 120 seconds. The water will continue to run until the end of the "Cool Down Cycle", or until the **"F5" (EXIT)** button is pressed.

After the "Cool Down Cycle is complete, the Fan(s) can be restarted by pressing the "F1" (FAN) button.

Internal & External fire modes at the same time:

It is possible that both the Internal and External Fire modes can be activated at the same time. If this occurs, the Internal Fire Mode will override the External Fire mode until the thermostat(s) cool below the set point, refer to the appropriate Ventilator or Pollution Control Technical Manual for the set point. At this point the Cool Down Cycle will start counting down for 2 minutes. After the Cool Down Cycle, the External Fire mode will start.

Special Note: If the control is in the Cool Down Cycle when the External Fire mode is activated, the Cool Down Cycle will finish counting down for 2 minutes, before switching to the External Fire Mode.



Summary of Both Fire Modes at the Same Time:

1. Internal Fire Mode (until thermostat temperature drops below the set point)
2. Cool Down Cycle (for 2 minutes)
3. External Fire Mode (until the External Fire Switch is reset)

FIRE MODE SUMMARY			
	INTERNAL Fire	**Cool Down Cycle (for Internal Fire Mode Only!)**	**EXTERNAL Fire**
Exhaust Fan	OFF	OFF	ON
Supply Fan	OFF	OFF	OFF
Electric Damper Position (if applicable)	FIRE	EXHAUST	EXHAUST
Water Spray	ON	ON	ON

UV SAFETY

Warning:

DO NOT defeat the purpose of the UV Safety Interlocks during Cleaning or Maintenance!

As with many types of technology if it is not used properly and/or proper precautions are not taken there is the potential for injury or harm. This is especially true with UVC light due to the fact that it does not physically hurt at the time of exposure. While UVC is very effective at breaking down grease molecules, direct exposure to large amounts is harmful to skin and eyes. The amount of UVC generated in these ventilators is greater than that what results from direct exposure to the sun. Under no circumstances is it acceptable to view the lighted lamps without proper eye protection or expose bare skin directly to the light. All interlocks and safety precautions called for in this manual must be followed to avoid the potential for harm to service personnel and/or operators. In addition, only trained and authorized personnel may perform some maintenance.

Personal Protective Equipment

Personal Protective equipment must be used at all times when working on any Gaylord “UV” ventilators, this includes:

1. Eye protection that prevents 100% of UVC being transmitted through the lens must be worn at all times when performing service work on any Gaylord “UV” ventilator that is energized and/or has the potential to be energized and expose personnel to UVC light.
2. Whenever service work is performed it is recommended that long sleeve shirts and long pants be worn to minimize the potential for inadvertent exposure of the skin to UVC.

Description:

If the **C-6000-D** is controlling Gaylord "UV" ventilators, the model number will include "UV" in the model number. The **C-6000-D-UV** will include the following components:

1. UV Status Lights
   - Green - "UV System On"
   - Yellow - "UV Lamp Failure"
   - Red - "UV Safety Interlock Activated"
2. UV Audible Alarm Cancel button
3. UV Hour Meter

UV SYSTEM ON

Description:

When the **C-6000-D-UV** is running in the “Fan On”, “Autostart”, or “Remote Start” mode, the UV Lamps will turn on. Under Normal conditions, when the UV Lamps are running normally the **“UV System On”** Green light will illuminate. If either the Yellow or Red UV Lights are illuminated, refer to the following pages.

Description:

The Gaylord "UV" ventilators are equipped with sensors to verify that all access doors are closed, all extractors are in place, and that the exhaust fan is running. The UV Lamps will NOT run unless ALL of the UV Safety Interlocks are in place and working properly. Refer to the appropriate Gaylord "UV" ventilator Technical Manuals for more details. If any of the sensors detect a problem, the **"UV Safety Interlock Activated"** Red light will illuminate, and the **"UV Audible Alarm"** will sound.

Operation:

When any of the UV Safety Interlocks are activated, the C-6000-D-UV will:

1. Run Exhaust Fan
2. Run Supply Fan
3. Shut **OFF** UV Lamps
4. Audible Alarm at **C-6000-D-UV** will sound

Silencing the "UV Audible Alarm":

To silence the alarm correct the problem with the UV Safety Interlock, refer to the appropriate Gaylord "UV" ventilator Technical Manuals for more details, or press, the **"UV Audible Alarm Cancel"** button. This will silence the alarm until the system is stopped and restarted. The **"UV Audible Alarm Cancel"** button will need to be pressed each time the **C-6000-D-UV** is restarted until the problem with the UV Safety Interlock is corrected.

Description:

When the UV Controller in a Gaylord "UV" ventilator senses that a UV Lamp is out or a ballast has failed, the **"UV Lamp Failure"** Yellow light will illuminate on the **C-6000-D-UV**, and the **"UV Audible Alarm"** will sound. This message indicates that one or more UV Lamps/Ballast are not working. Refer to appropriate Gaylord "UV" ventilator Technical Manual for troubleshooting details. If one UV Lamp is out, the Fans and remaining UV Lamps will continue to run. In most cooking applications, having one or two UV Lamps out will not hinder the performance of the UV. The number of UV Lamps are designed to handle the worst case cooking applications. Therefore, even if one or more UV Lamps are not working the UV will continue to clean the air and keep the Plenum, Exhaust Duct, and Exhaust Fan clean.

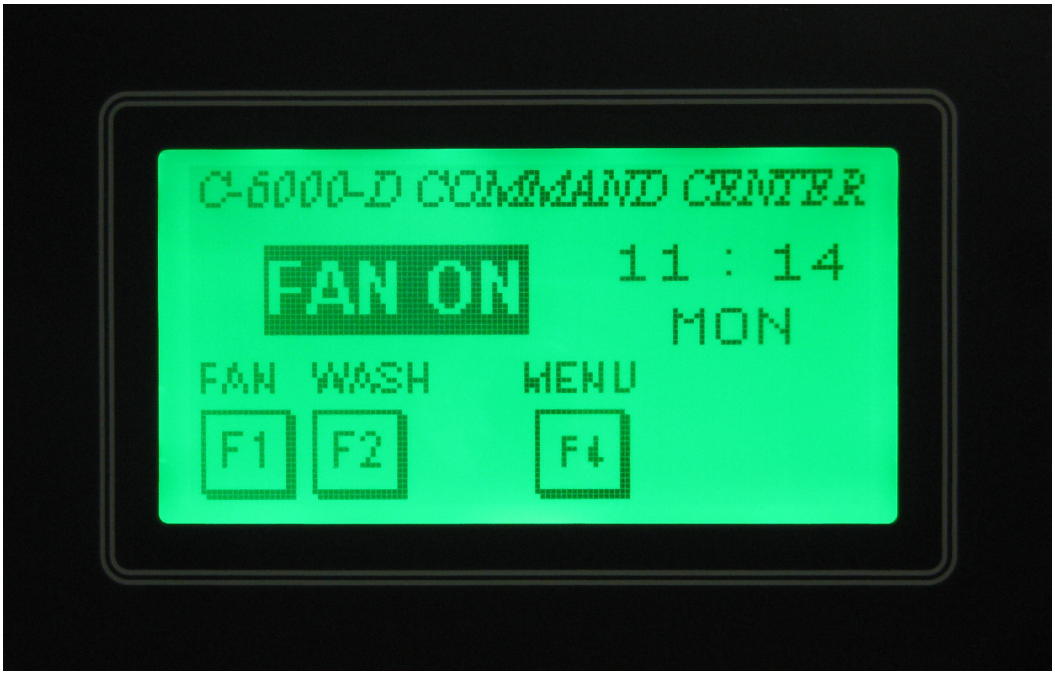
Note:

If there is a "UV Lamp Failure" less UV is being generated, but it does not prevent the operation of the ventilator or indicate an unsafe condition.

Description:

If the **C-6000-D** is turned On, and None of the UV Lights are illuminated, the following items should be looked at:

1. Verify that all of the circuit breakers for the UV Modules are turned On, check for power at the ventilator on **"L1"** & **"L2"**, refer to the appropriate Gaylord "UV" ventilator Technical Manual for more details.



Description:

The UV Lamps need to be changed out after 8000 hours of use by a Gaylord Certified Service Agent (CSA). After 8000 hours, the UV Lamps will still work, but the performance of the UV Lamps, i.e. the amount of Ultraviolet light produced decreases dramatically. Refer to the appropriate Gaylord "UV" ventilator Technical Manual for instructions on replacing UV Lamps.

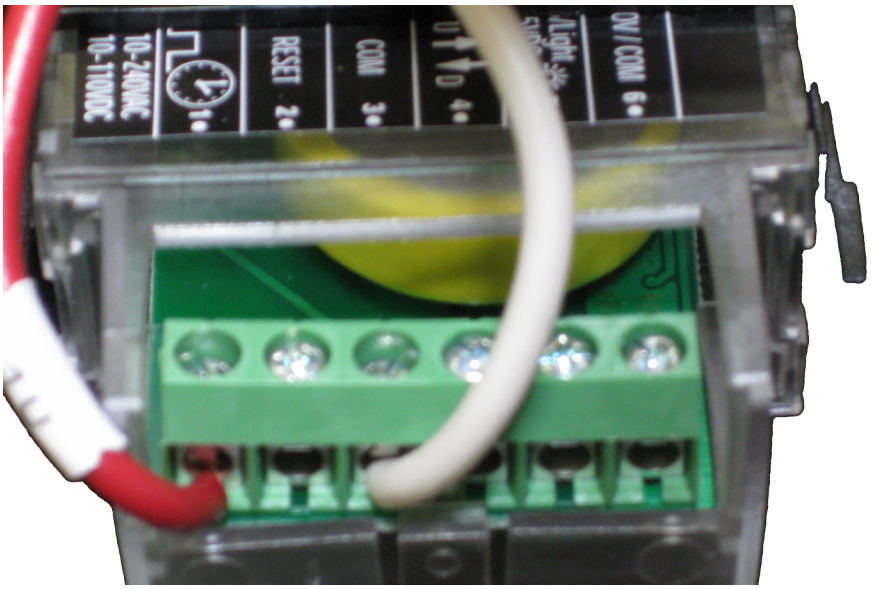
Checking the # Hours on the UV Lamps:

To check the Number of Hours the UV Lamps have been in operation, look at the UV Hour Meter shown below. The display shows the Hours - % Hours, (ex. 1-75 = 1.75 Hours)

Resetting the UV Hour Meter:

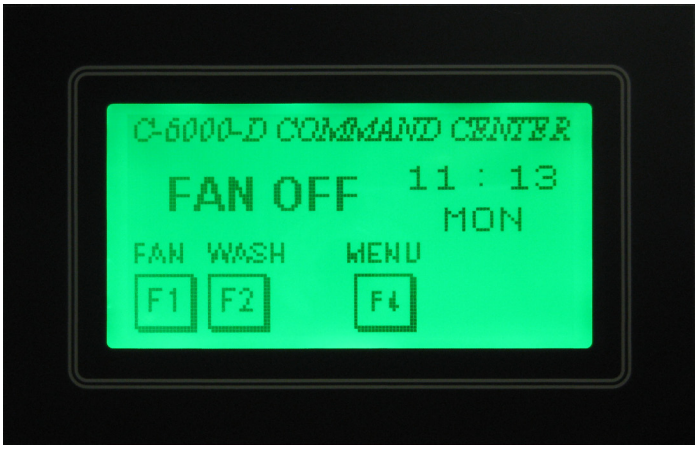
After the UV Lamps have been replaced, the UV Hour Meter should be reset to Zero. To reset the UV Hour Meter, look at the back of the UV Hour Meter:

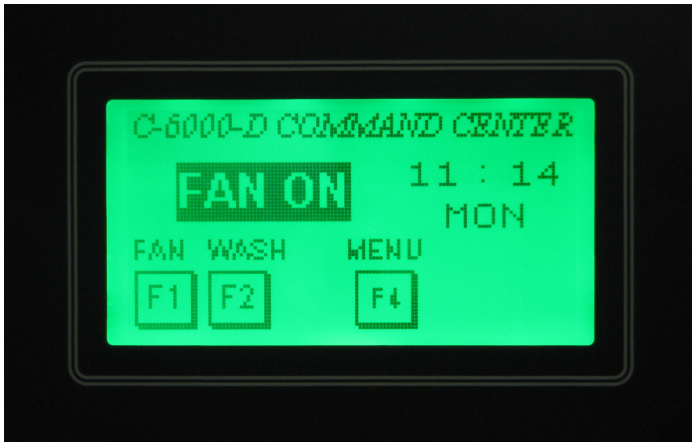
1. Shut off the breaker to the **C-6000-D-UV**.
2. Connect a wire from **"10-240VAC"** terminal to the **"2 - RESET"** terminal
3. Turn on the breaker to the **C-6000-D-UV** for approx. 1 second.
4. Disconnect the wire from **"10-240VAC"** terminal to the **"2 - RESET"** terminal
5. Verify that the hours reset to zero



Several Options can be programmed on the **C-6000-D** by pressing the **"F4" (MENU)** button. Some options may only be set at the factory.

To Enter the Menu, press the **"F4" (MENU)** button. This may be done in the **"FAN OFF"** or **"FAN ON"** mode. To Navigate through the Menu Options, press **"F1"** to proceed to the **Next** option, or press **"F2"** to go to the **Previous** option.





Menu Options Summary:

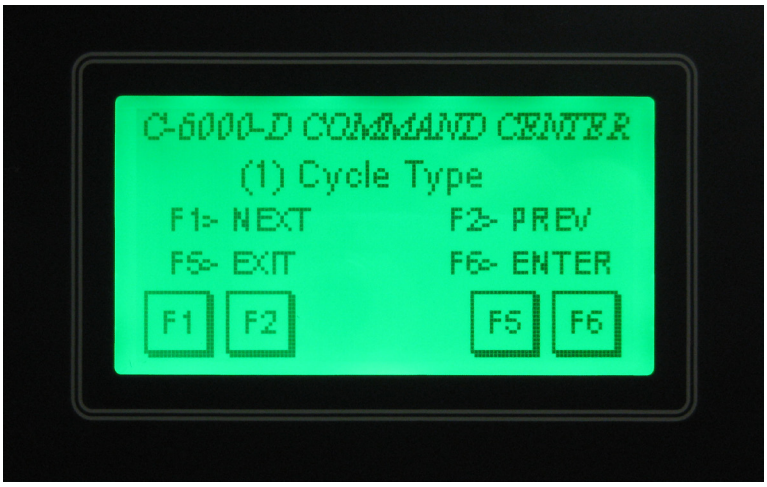
1. **Cycle Type**
   - Is preset at the Factory for **"HOOD"** or **"ESP"** wash cycles
   - Depending on the type of equipment the **C-6000-D** is controlling (Hoods or Pollution Control Units). This option is preset at the Factory and does not need to be changed in the field.
2. **Detergent**
   - Provides a Phone Number to call and order G-510 (Detergent) from
3. **Wash Length**
   - Allows Length of Wash Sequences to be adjusted
4. **Delay Time**
   - Allows Length of Delay Time between multiple Sequences to be adjusted
5. **Set Clock**
   - Is used to set Time of Day on Clock
6. **AutoMode**
   - Allows the **C-6000-D** to Start Fan/Wash Automatically or Manually
7. **Set Wash Times**
   - Is used to set the Start Fan and Start Wash Times if the **C-6000-D** is set to run Automatically
8. **Wash Test**
   - Is used by the Factory when testing **C-6000-D**
9. **# of Washes**
   - Is preset at the Factory to match the number of Sequences the **C-6000-D** controls

1. Cycle Type

- Is preset at the Factory for **"HOOD"** or **"ESP"** wash cycles depending on the type of equipment the **C-6000-D** is controlling (Hoods or Pollution Control Units). This option is preset at the Factory and does not need to be changed in the field. This option is Password protected, so it can only be set at the Factory.

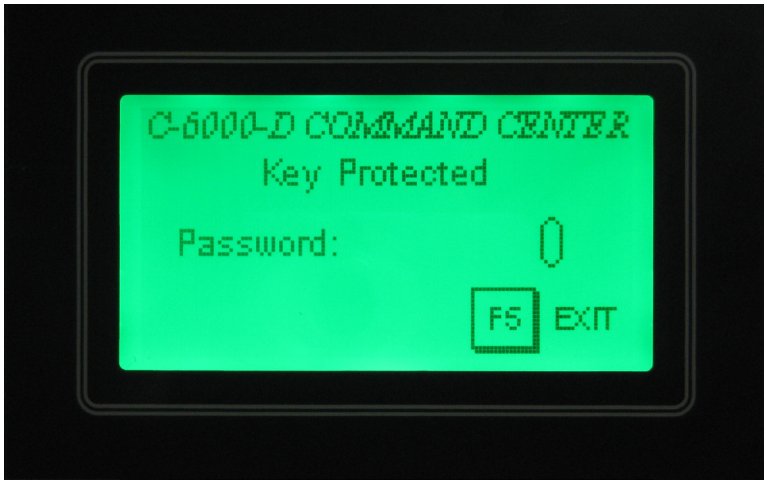
"HOOD" Wash

- A **"Hood"** Wash cycle is used for any water wash ventilator. Refer to "Wash Modes" for more information on the **"HOOD"** Wash Cycle.



"ESP" Wash

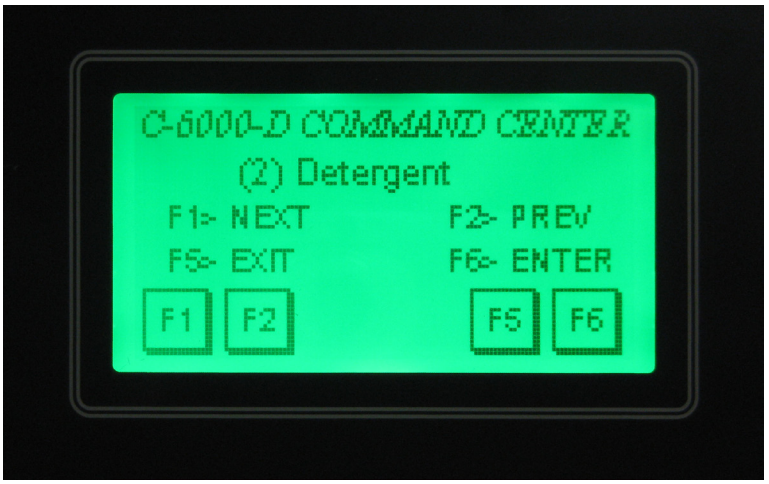
- An **"ESP"** Wash cycle is used for CG3-UV-SPC ventilators or RSPC-ESP Pollution Control Units. Refer to "Wash Modes" for more information on the **"ESP"** Wash Cycle.



2. Detergent

- Provides a Phone Number to call and order Formula G-510 (Detergent) from. Please note that using a detergent other than Formula G-510 may void the warranty

- To display the Detergent Phone Number, scroll to Option **(2) "Detergent"** under the Menu. Then, press the **"F6" (ENTER)** button.



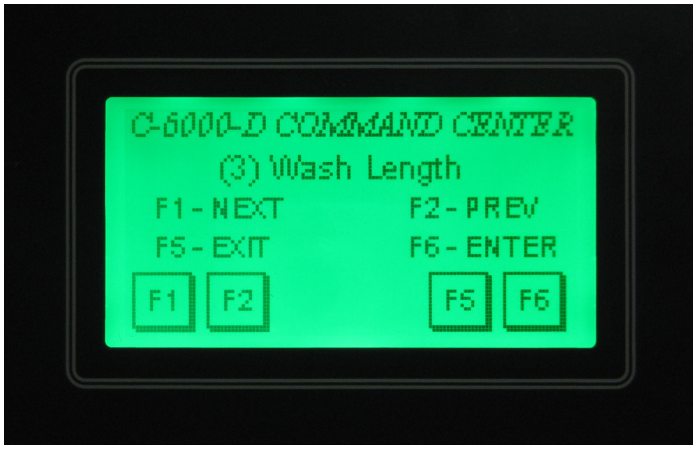
- To exit press the **"F5" (EXIT)** button.

3. Wash Length

- Allows the Length of each Wash Sequence (solenoid) to be adjusted from 3 to 9 minutes. Refer to the "Recommended Wash Cycle Lengths" table for times.

Recommended Wash Cycle Lengths	
Type of Cooking	**Length of Wash Cycle**
Light-Duty	3
Medium-Duty	5
Heavy-Duty	9

- To Change the Length of a Wash Sequence, scroll to Option **(3) "Wash Length"** under the Menu. Then, press the **"F6" (ENTER)** button.



- To Adjust the Length of the Wash, press the number on the screen.
- If there is more than one Sequence (solenoid), press the **"F1" (NEXT)** button to select "Wash 02, "Wash 03", etc. to set the times for the other Sequences (solenoids).

- To enter the number press the time desired, 3 through 9, then press the **"Enter"** ↵ button. If necessary the number can be cleared by pressing the **"CLR"** button.
- **Note:** Remember that the time must be 3 to 9 minutes.

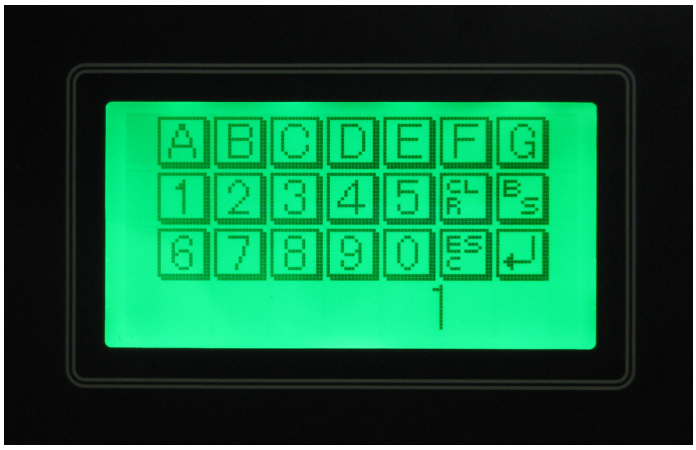
"CLR" button	= Clear
"B S" button	= Backspace
"ESC" button	= Escape
"↵" button	= Enter

4. Delay Time

- Allows Length of Delay Time between multiple Sequences (solenoids) to be adjusted from 1 to 99 minutes. This allows time for the Hot Water to reheat if necessary.
- To Change the Length of the Delay Time, scroll to Option **(4) "Delay Time"** under the Menu. Then, press the **"F6" (ENTER)** button.

- To Adjust the Delay Time, press the number on the screen.

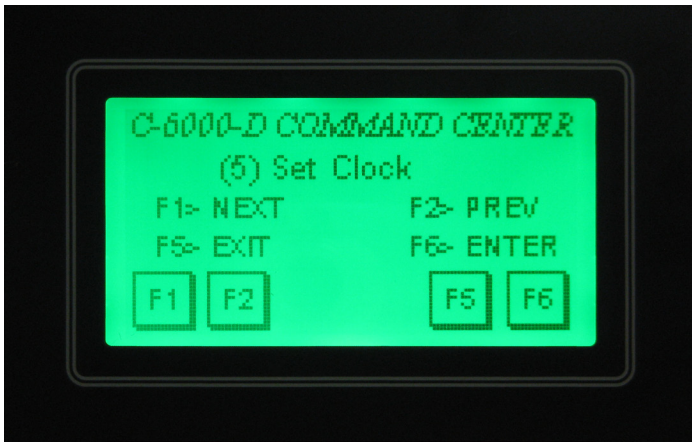
- To enter the number press the time desired, 1 through 99, then press the **"Enter"** ↵ button. If necessary the number can be cleared by pressing the **"CLR"** button.
- **Note:** Remember that the time must be 1 to 99 minutes.



"CLR" button	= Clear
"B S" button	= Backspace
"ESC" button	= Escape
"↵" button	= Enter

5. Set Clock

- Allows the Clock and Day of Week to be set. Note that the clock is a 24-hour clock, so 1:00 PM is displayed as 13:00.
- To Set the Clock, scroll to Option **(5) "Set Clock"** under the Menu. Then, press the **"F6" (ENTER)** button.



Set the Hours:

To Set the Hour, press the number for the Hour on the screen. To enter the Hours, enter 2 digits for Hour, then press the "Enter" ↵ button.

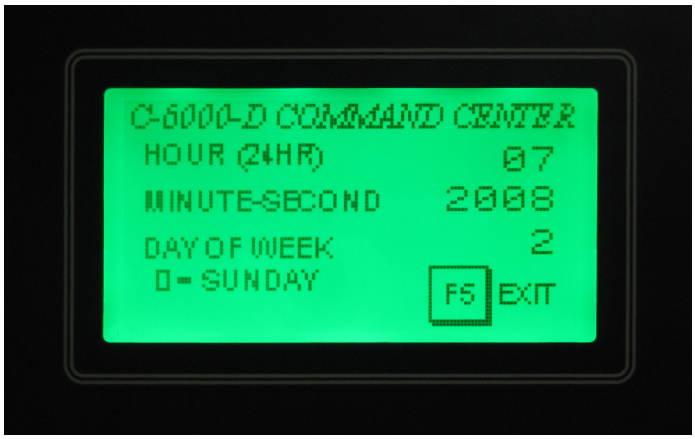
Ex) 8 AM = 08

Set the Minutes:

To Set the Minutes AND Seconds, press the number for the Minutes-Seconds on the screen.

To enter the Minutes, be sure to enter 4 digits - enter Minutes, then Seconds, then press the "Enter" ↵ button.

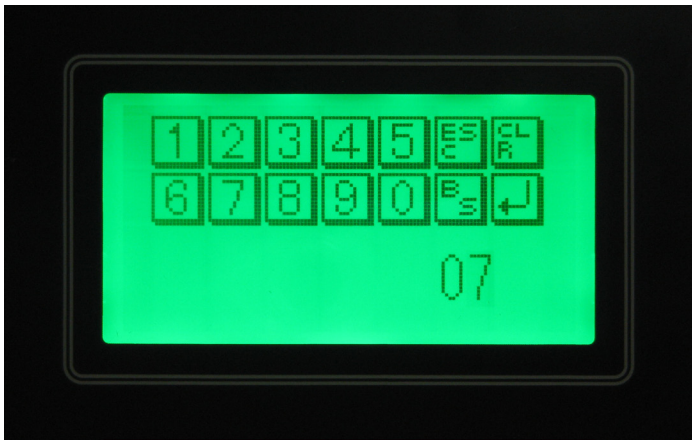
Ex) 0:25 Minutes = 2500 (25 Min. & 00 Sec.)



Set Day of Week:

To Set the Day of Week, press the number for the Day of Week, then press the "Enter" ↵ button.

Enter the following:
0 - Sunday
1 - Monday
2 - Tuesday
3 - Wednesday
4 - Thursday
5 - Friday
6 - Saturday
7 - Sunday

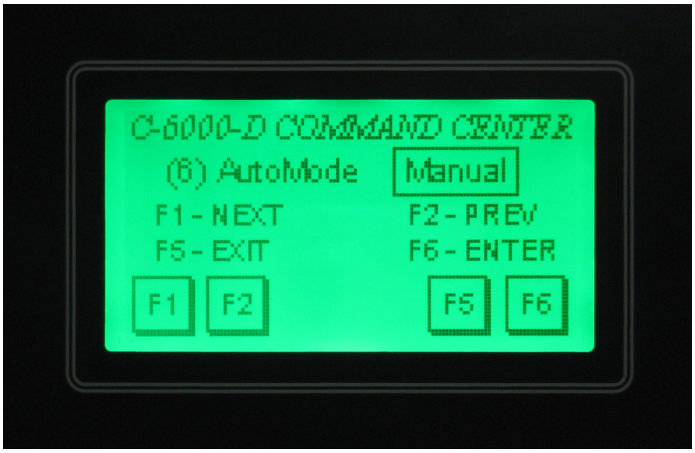


"CLR" button	= Clear
"B S" button	= Backspace
"ESC" button	= Escape
"↵" button	= Enter

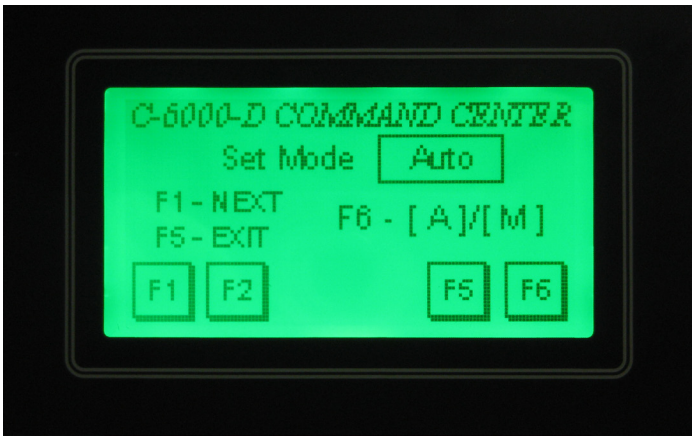
6. AutoMode

- Allows the **C-6000-D** to Start Fan/Wash Automatically or Manually. If the screen displays **"Manual"** the Fan(s) and Wash must be started Manually. If the screen displays **"Auto"**, the Fan(s) and Wash will start automatically according to the schedule set up.

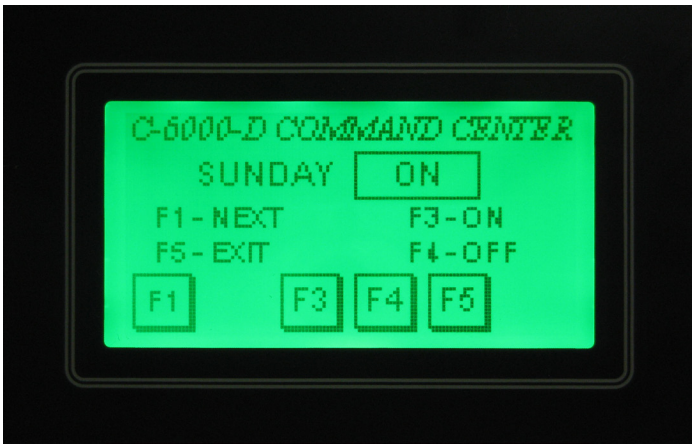
- To Set the AutoMode, scroll to Option **(6) "AutoMode"** under the Menu. Then, press the **"F6" (ENTER)** button.



- To change the setting for Auto or Manual, press the **"F6" [A]/[M]** button. Pressing **"F6"** will toggle from **"Manual"** to **"Auto"**.

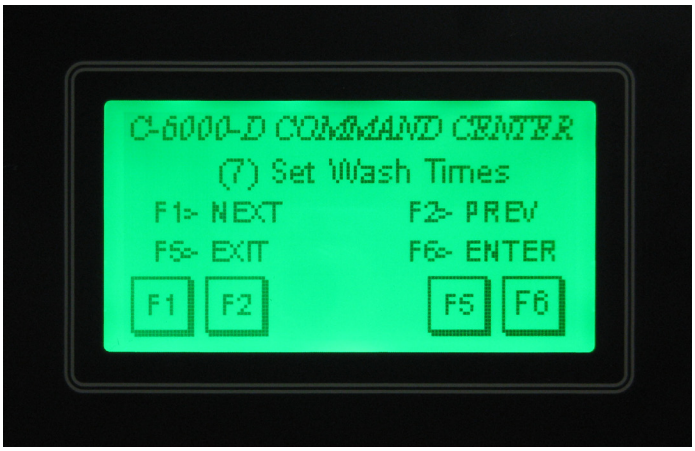


- To set which days the Fan(s) and Wash will start, press the **"F1" (NEXT)** button. Each day can be toggled On or Off by pressing **"F3" (ON)** or pressing **"F4" (OFF)**. Press **"F1" (NEXT)** to go to Monday, Tuesday, etc. Be sure to check the setting for every day of the week and verify that each day is correctly set ON or OFF. When done, press **"F5" (EXIT)** until the screen at the top right is visible.



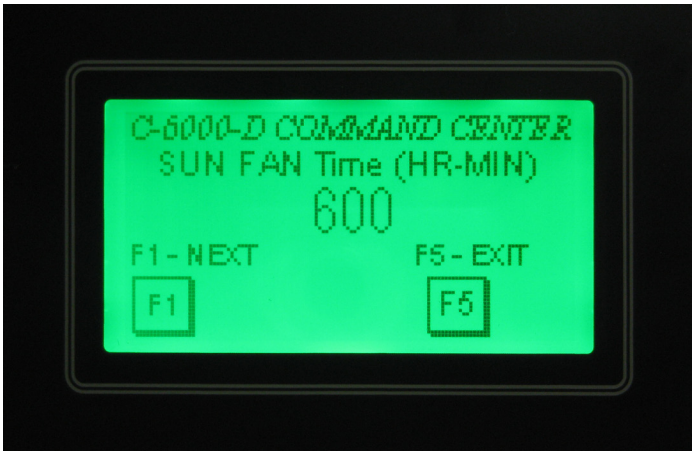
7. Set Wash Times

- Is used to set the Start Fan and Start Wash Times if the **C-6000-D** is set to run Automatically, "Auto".
- To Set the Wash Times, scroll to Option **(7) "Set Wash Times"** under the Menu. Then, press the **"F6" (ENTER)** button.



Fan Start Time:

To Set the Start Time for the Fan(s) on Sunday, press the time on the screen.

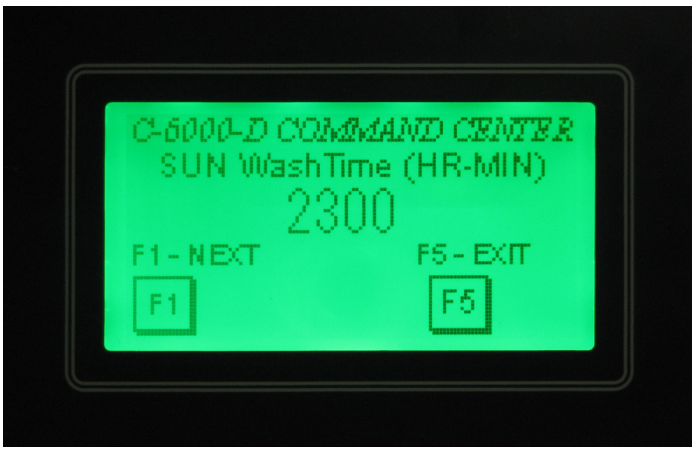


- To set the time, enter the time in the 24-hour format. 6:00AM is shown at right as 600. To enter 11:00PM, enter 2300. After entering the numbers, press the "Enter" ↲ button.

Wash Start Time:

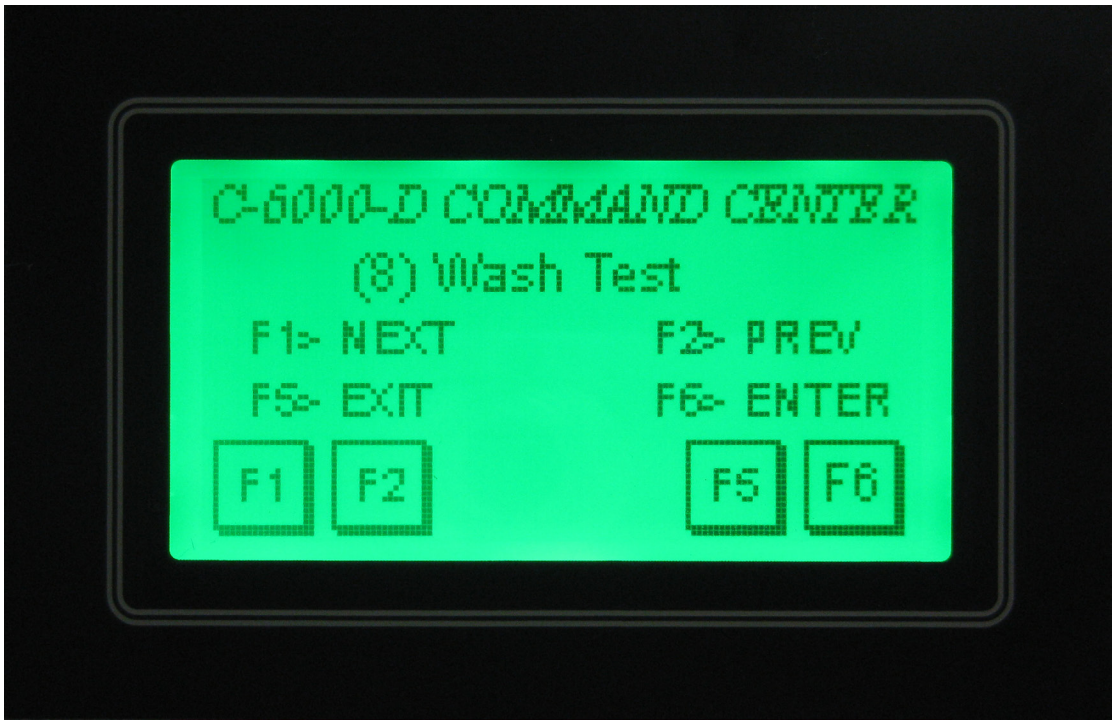
After setting the Start Time for the Fan(s) on Sunday, press **"F1" (NEXT)** to go to the Start time for the Wash on Sunday. Enter the time as described above. Then continue to press **"F1" (NEXT)** to set the Start Fan and Start Wash times for every day of the week.

"CLR" button	= Clear
"B S" button	= Backspace
"ESC" button	= Escape
"↲" button	= Enter



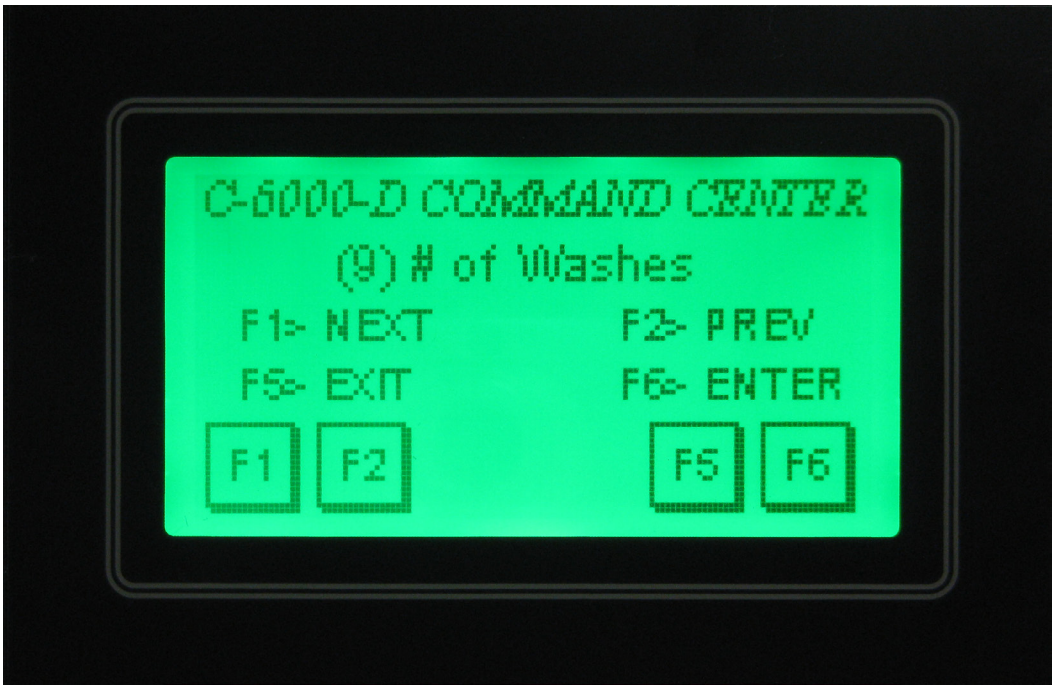
8. Wash Test

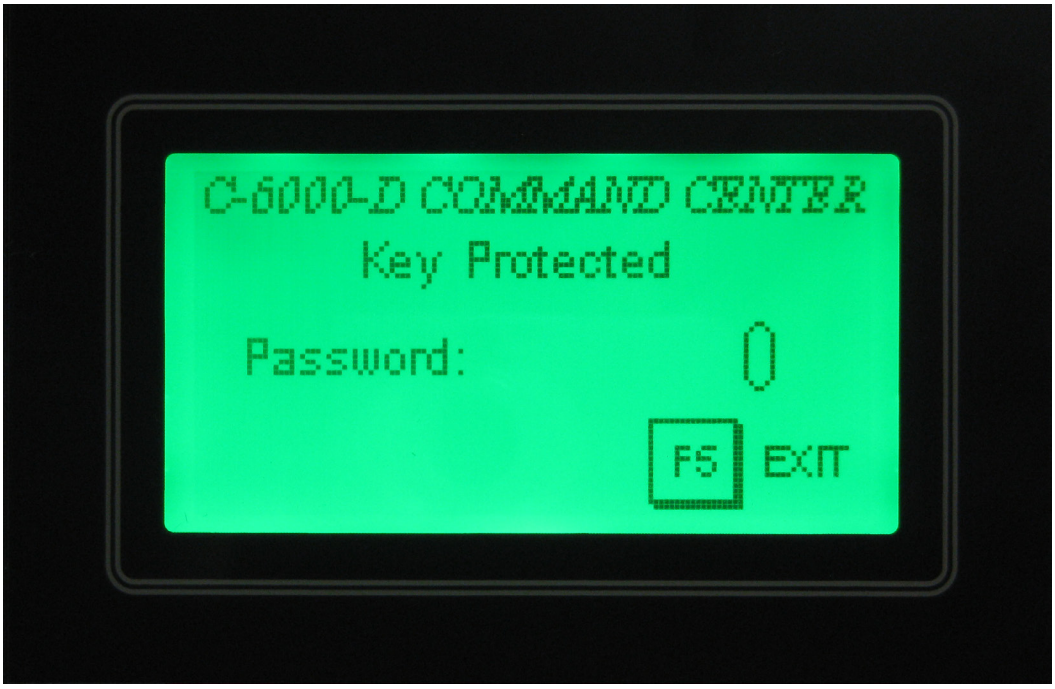
- This option is used by the Factory when testing **C-6000-D**.



9. # of Washes

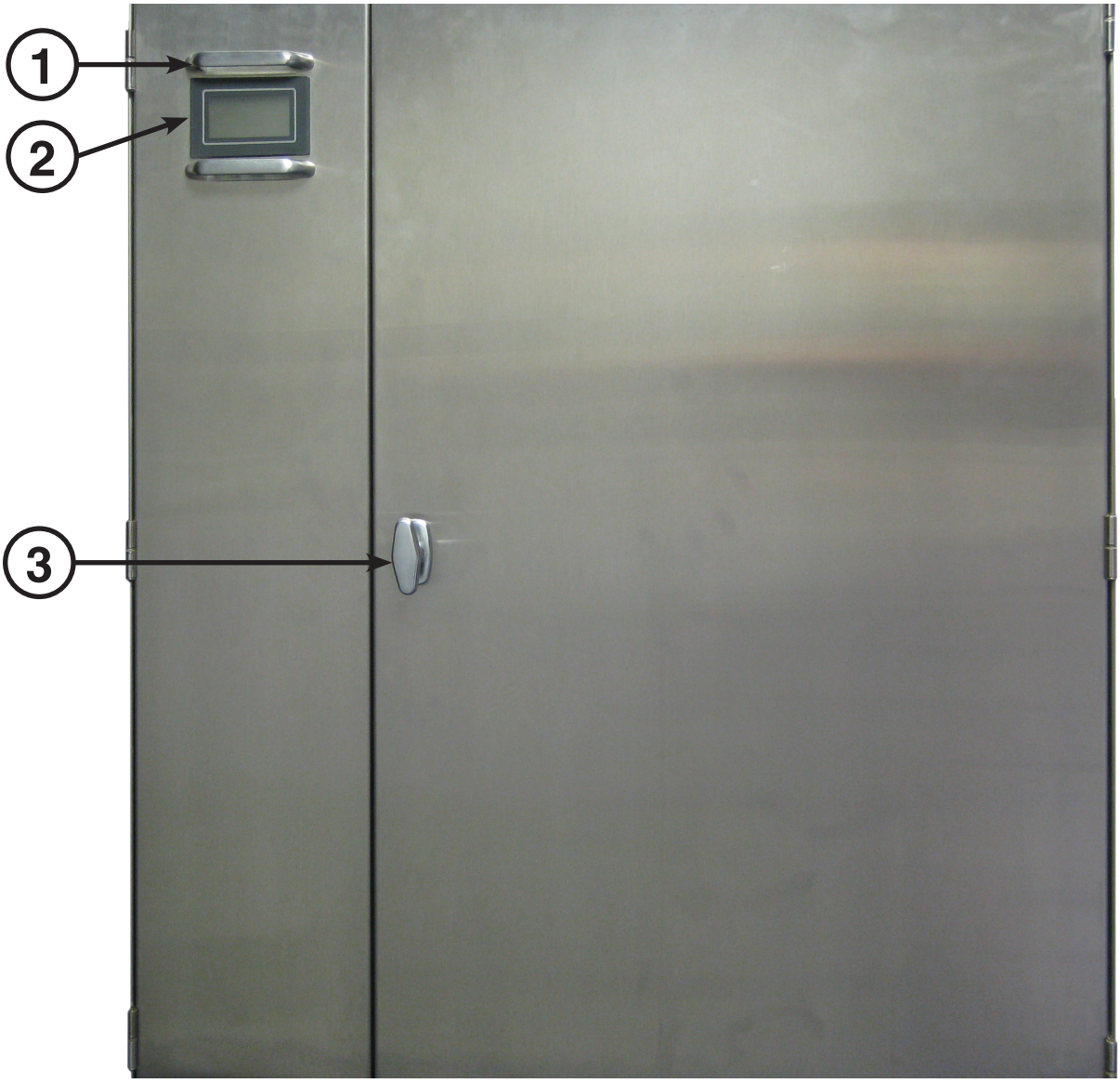
- Is preset at the Factory to match the number of Sequences controlled by the **C-6000-D**. This option is preset at the Factory and does not need to be changed in the field. This option is Password protected, so it can only be set at the Factory.





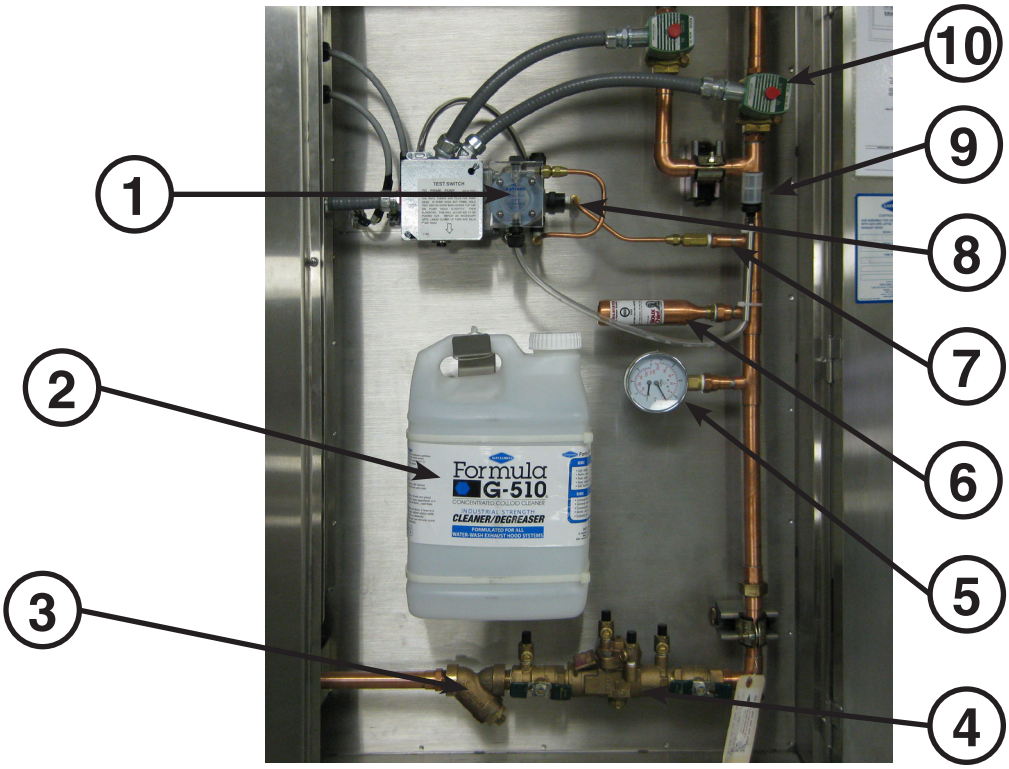
This page intentionally left blank.

GPC-6000 CABINET PARTS LIST



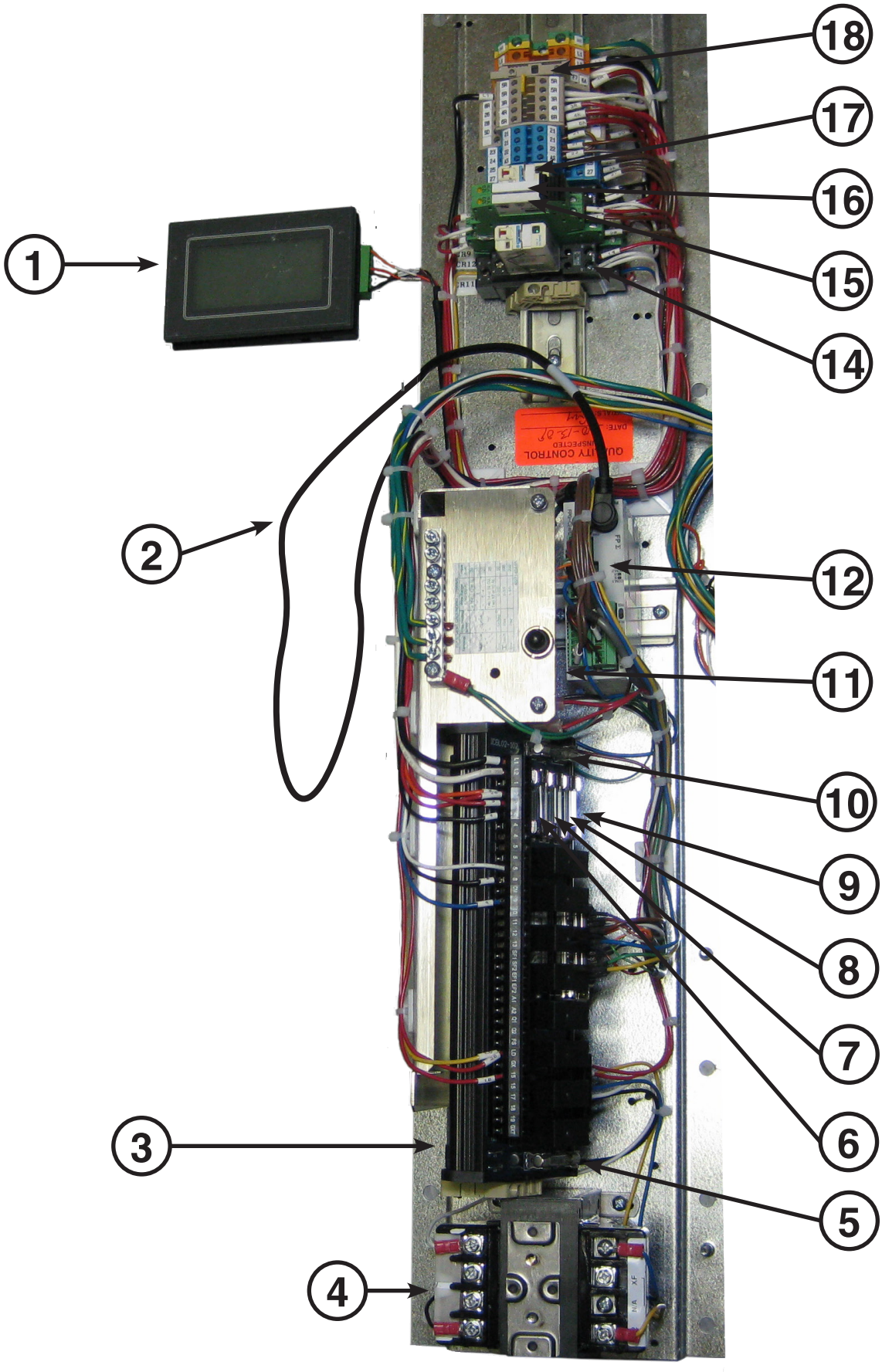
ITEM #	DESCRIPTION	GAYLORD PART #
1	4” Pull Handle Kit (2 pack)	75587
2	C-6000-D HMI - Operator Interface	20115
3	Chrome “T” Door Handle w/ Tongue Kit	75584

GPC-6000 PLUMBING PARTS LIST



ITEM #	DESCRIPTION		GAYLORD PART #
1	Detergent Pump	(120 Volt) (220 Volt)	10222 10223
2	2-1/2 Gallon Jug Formula G-510 Detergent		19793
3	Line Strainer	Pipe Size: 0.75” Pipe Size: 1.00” Pipe Size: 1.25” Pipe Size: 1.50”	10153 10149 10148 10147
4	Backflow Preventer “RP” Device	Pipe Size: 0.75” Pipe Size: 1.00” Pipe Size: 1.25” Pipe Size: 1.50”	11317 11320 11319 11318
5	Pressure/Temperature Gauge		10175
6	Shock Absorber (Only on 0.75” Pipe Size)		10158
7	Brass Check Valve		10264
8	Low Detergent Flow Switch (Optional) FS-4 Series		16892
9	Foot Valve		10269
10	Solenoid Valve A. Replacement Coil B. Solenoid Valve Repair Kit	 (120 Volt) (220 Volt) Pipe Size: 0.75” Pipe Size: 1.00” Pipe Size: 1.25” Pipe Size: 1.50”	 10156 10157 14388 14389 14390 14391

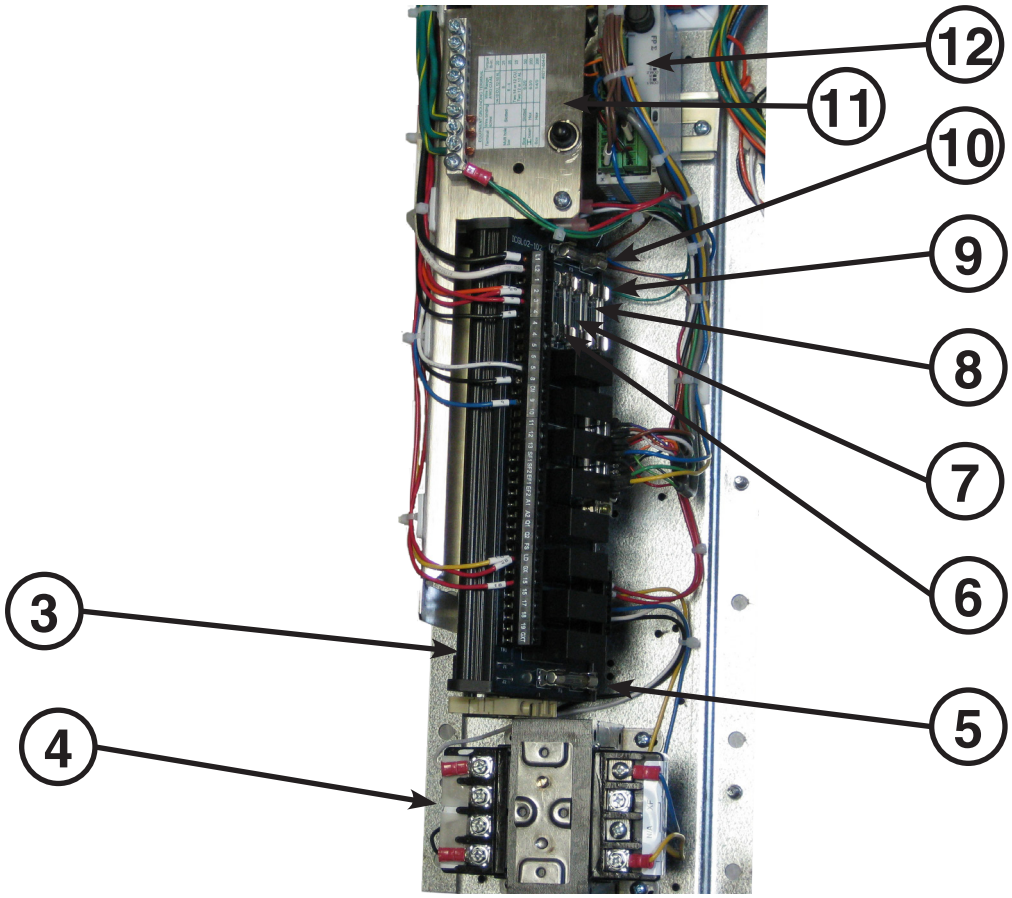
C-6000-D PARTS LIST



C-6000-D PARTS LIST

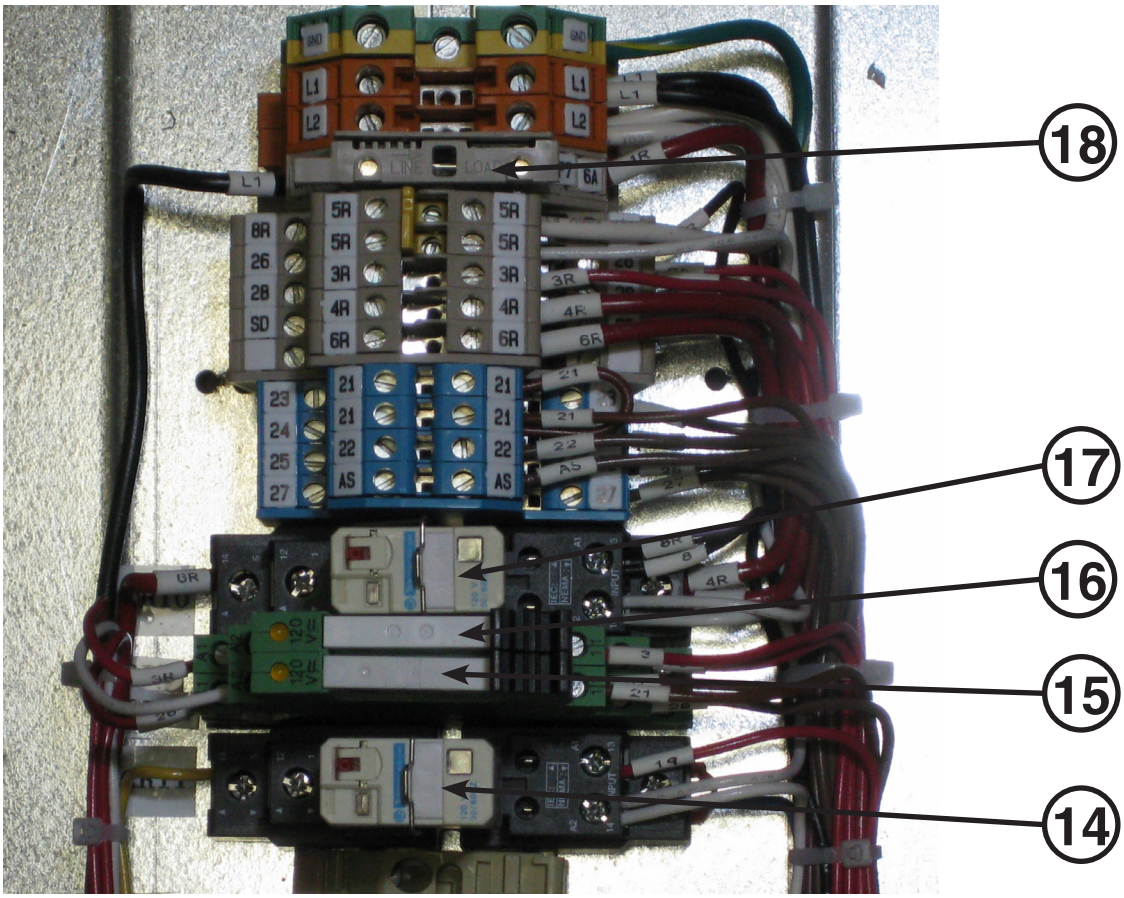
	ITEM #	TAG Internal Wiring Diagram	DESCRIPTION	GAYLORD PART #	MFR PART #
	1	OIT	C-6000-D HMI w/ Program	20115	
	2	N/A	HMI Cable	20107	
	3	OUTP	C-6000-B Output Module	18983	
	4	TX1	24VAC Transformer (100VA)	18981	
	5	F6	Fuse (F6) - 6 Amp Transformer - Secondary	19020	BUSS AGC-6
	6	F1	Fuse (F1) - 2 Amp 24VDC Power Supply	13062	BUSS AGC-2
	7	F2	Fuse (F2) - 4 Amp PLC - 120VAC	10039	BUSS AGC-4
	8	F3	Fuse (F3) - 1 Amp Supply Fan Mag. Starter	19027	BUSS MDL-1
	9	F4	Fuse (F4) - 1 Amp Exhaust Fan Mag. Starter	19027	BUSS MDL-1
	10	F5	Fuse (F5) - 2 Amp Transformer - Primary	13062	BUSS AGC-2
	11	DCP	24VDC Power Supply (underneath)	18863	
	12	PLC	C-6000-D PLC w/ Program	20114	
	13	PEM	PLC Expansion Module (Optional - Not shown)	18867	
	14	CR11	Control Relay [CR11] (Damper Drive Signal)	11399	
			Socket (SPDT)	11413	
	15	CR12	Control Relay [CR12] (Remote Low Detergent - 26)	20116	
			Socket (SPDT)	20117	
	16	CR9	Control Relay [CR9] (RSPC-ESP Fire Input - 3R)	20116	
			Socket (SPDT)	20117	
C-6000-D	17	CR10	Control Relay [CR10] (ESP/SPC Cells - Start Signal)	11399	
			Socket (SPDT)	11413	
C-6000-D.1	17	CR10	Control Relay [CR10] (ESP/SPC Cells - Start Signal)	10283	
			Socket (DPDT)	10295	
	18	F7	Fuse (F7) - 6.3 Amp ESP Outputs (4R, 6R, 8R)	17061	BUSS GDB-6.3

C-6000-D PARTS LIST



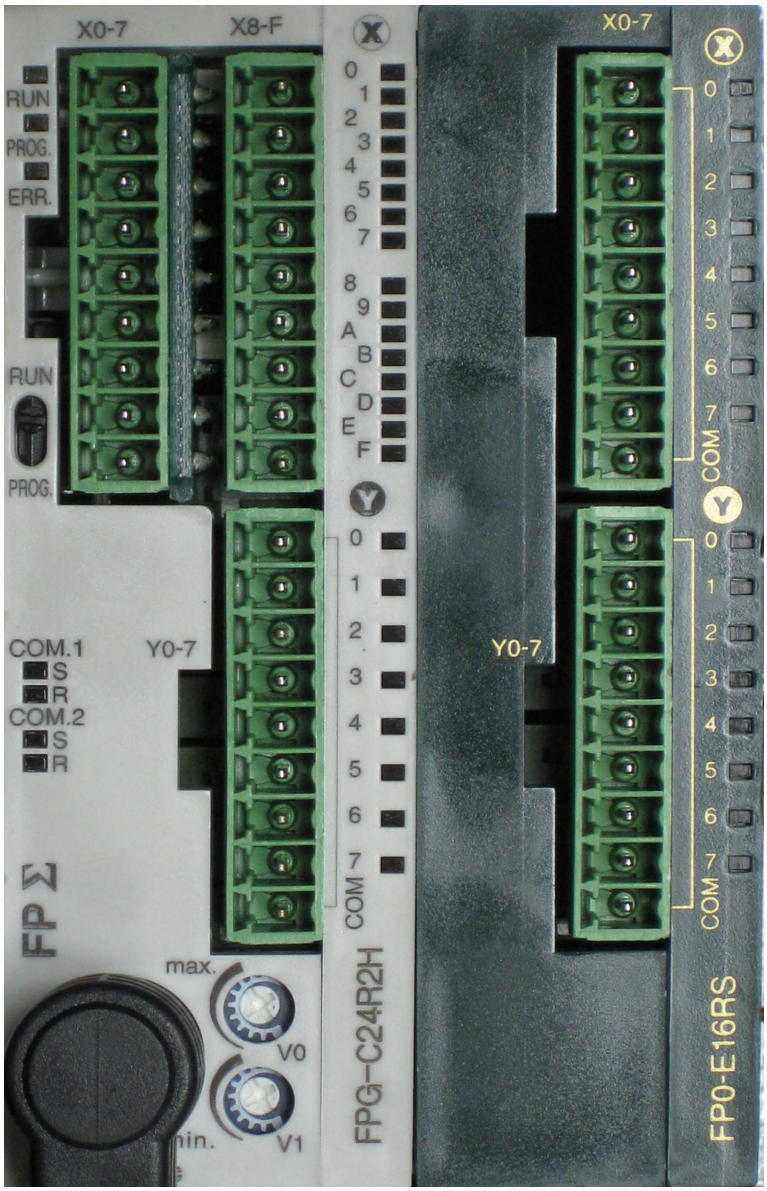
ITEM #	TAG Internal Wiring Diagram	DESCRIPTION		GAYLORD PART #	MFR PART #
3	OUTP	C-6000-B Output Module		18983	
4	TX1	24VAC Transformer (100VA)		18981	
5	F6	Fuse (F6) - 6 Amp	Transformer - Secondary	19020	BUSS AGC-6
6	F1	Fuse (F1) - 2 Amp	24VDC Power Supply	13062	BUSS AGC-2
7	F2	Fuse (F2) - 4 Amp	PLC - 120VAC	10039	BUSS AGC-4
8	F3	Fuse (F3) - 1 Amp	Supply Fan Mag. Starter	19027	BUSS MDL-1
9	F4	Fuse (F4) - 1 Amp	Exhaust Fan Mag. Starter	19027	BUSS MDL-1
10	F5	Fuse (F5) - 2 Amp	Transformer - Primary	13062	BUSS AGC-2
11	DCP	24VDC Power Supply	(underneath)	18863	
12	PLC	C-6000-D PLC w/ Program		20114	
13	PEM	PLC Expansion Module	(Optional - Not shown)	18867	

C-6000-D PARTS LIST



	ITEM #	TAG Internal Wiring Diagram	DESCRIPTION		GAYLORD PART #	MFR PART #
	14	CR11	Control Relay [CR11]	(Damper Drive Signal)	11399	
			Socket (SPDT)		11413	
	15	CR12	Control Relay [CR12]	(Remote Low Detergent - 26)	20116	
			Socket (SPDT)		20117	
	16	CR9	Control Relay [CR9]	(RSPC-ESP Fire Input - 3R)	20116	
			Socket (SPDT)		20117	
C-6000-D	17	CR10	Control Relay [CR10]	(ESP/SPC Cells - Start Signal)	11399	
			Socket (SPDT)		11413	
C-6000-D.1	17	CR10	Control Relay [CR10]	(ESP/SPC Cells - Start Signal)	10283	
			Socket (DPDT)		10295	
	18	F7	Fuse (F7) - 6.3 Amp	ESP Outputs (4R, 6R, 8R)	17061	BUSS GDB-6.3

C-6000-D PLC STATUS LIGHTS



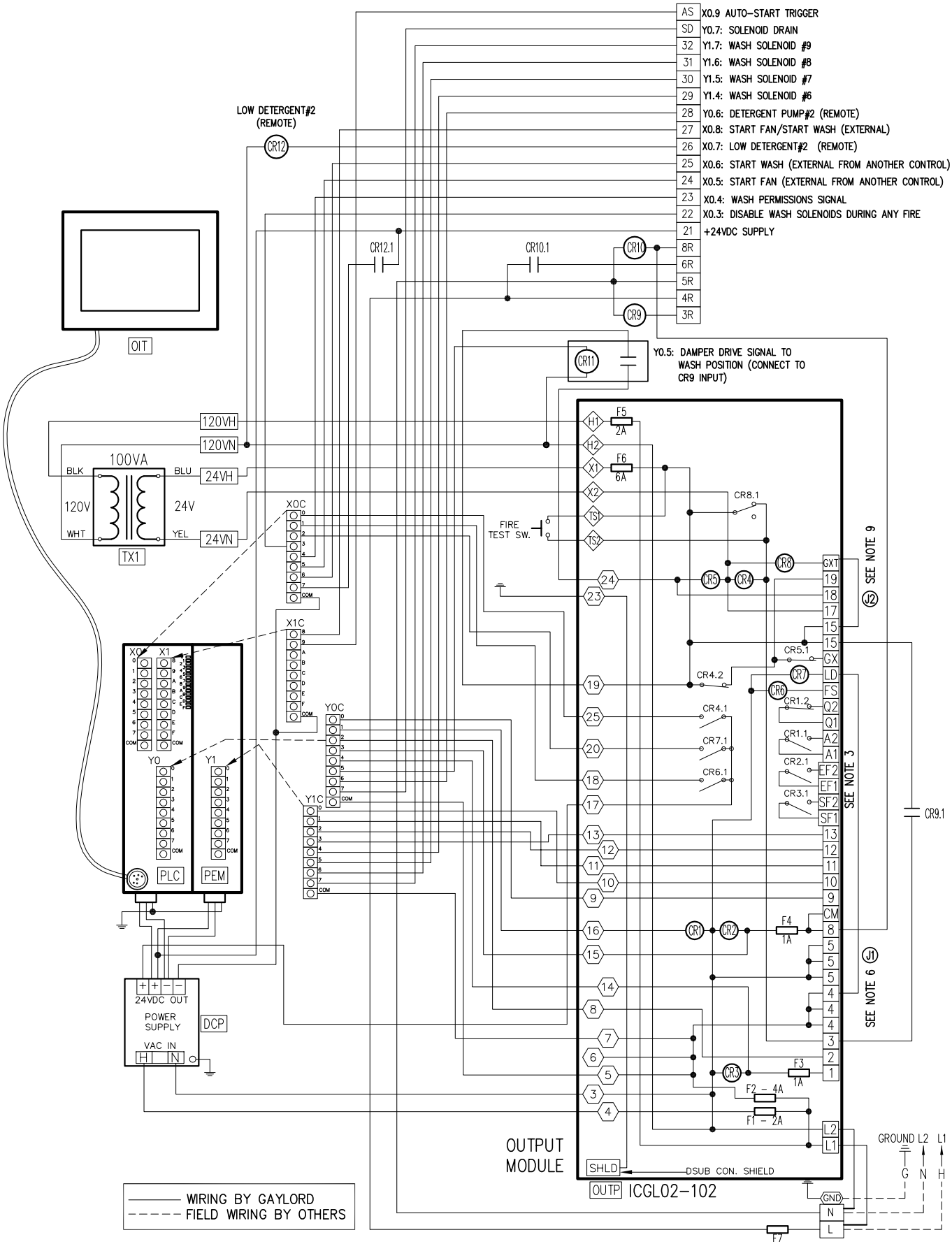
EXPANSION MODULE #2 SEQUENTIAL "S10-S13"	(SEQUENTIAL WASH "S10-S13") DESCRIPTION - EXPANSION MODULE #2		
	Y (Outputs)	DESCRIPTION OF STATUS LIGHTS	GENERAL DESCRIPTION
	0	On when Wash Solenoid # 10 should be open.	Wash Solenoid #10
	1	On when Wash Solenoid # 11 should be open.	Wash Solenoid #11
	2	On when Wash Solenoid # 12 should be open.	Wash Solenoid #12
	3	On when Wash Solenoid # 13 should be open.	Wash Solenoid #13
	4	Not Used	
	5	Not Used	
	6	Not Used	
	7	Not Used	

C-6000-D PLC STATUS LIGHTS

	STANDARD (SINGLE OR SEQUENTIAL WASH) DESCRIPTION - PLC		
	X (Inputs)	**DESCRIPTION OF STATUS LIGHTS**	**GENERAL DESCRIPTION**
PLC	0	**On** while “Fire Test Switch” is pushed and held, or hood is in Internal Fire Mode. **Off** during "Cool Down Cycle".	Internal Fire Mode
	1	**On** when hood is in External Fire Mode (Ansul), or Break Glass Pull Station is activated	External Fire Mode
	2	**On** normally. It shuts **off** if cabinet is equipped with Low Detergent alert feature and the detergent is low.	Low Detergent (Local)
	3	**Off** normally. **On** when Jumper is installed to disable Wash Solenoids from opening during Internal Fire Mode and External Fire Modes.	Disable Wash Solenoids during an Internal or External Fire
	4	**Off** normally. **On** when Jumper is installed to enable Wash Permission Signal.	Wash Permission Signal
	5	**On** when signal from External Control is sent to Start Fan	Start Fan (External)
	6	**On** when signal from External Control is sent to Start Wash	Start Wash (External)
	7	**On** normally. It shuts **off** if cabinet is equipped with Low Detergent alert feature and the detergent is low.	Low Detergent (Remote)
	8	**On** when signal from External Control is sent to Start Fan	Start Fan/Start Wash (External)
	9	**On** when signal from Autostart is active	Autostart Input
	A	Not Used	
	B	Not Used	
	C	Not Used	
	D	Not Used	
	E	Not Used	
	F	Not Used	
	Y (Outputs)	**DESCRIPTION OF PLC STATUS LIGHTS**	**GENERAL DESCRIPTION**
	0	**On** when Wash Solenoid # 1 should be open.	Wash Solenoid #1
	1	**On** during an Internal or External Fire Mode. **On** during "Cool Down Cycle".	Alarm / Fire Mode
	2	**On** when Detergent Pump (Local) should be **on**.	Detergent Pump (Local)
	3	**On** when Exhaust Fan should be **on**.	Exhaust Fan
	4	**On** when Supply Fan should be **on**.	Supply Fan
	5	**On** when damper is in "Wash" position, or while damper is moving to "Wash" position	Damper Drive Signal to Wash Position
	6	**On** when Detergent Pump (Remote) should be **on**.	Detergent Pump (Remote)
	7	**On** when Solenoid Drain should be energized	Solenoid Drain
	COM	Never comes on	

	(SEQUENTIAL WASH “S2-S9”) DESCRIPTION - EXPANSION MODULE #1		
	Y (Outputs)	**DESCRIPTION OF STATUS LIGHTS**	**GENERAL DESCRIPTION**
EXPANSION MODULE #1 SEQUENTIAL “S2-S9”	0	**On** when Wash Solenoid # 2 should be open.	Wash Solenoid #2
	1	**On** when Wash Solenoid # 3 should be open.	Wash Solenoid #3
	2	**On** when Wash Solenoid # 4 should be open.	Wash Solenoid #4
	3	**On** when Wash Solenoid # 5 should be open.	Wash Solenoid #5
	4	**On** when Wash Solenoid # 6 should be open.	Wash Solenoid #6
	5	**On** when Wash Solenoid # 7 should be open.	Wash Solenoid #7
	6	**On** when Wash Solenoid # 8 should be open.	Wash Solenoid #8
	7	**On** when Wash Solenoid # 9 should be open.	Wash Solenoid #9
	COM	Never comes on	

C-6000-D INTERNAL WIRING



PLC I/O SCHEDULE

INPUTS		OUTPUTS			
X0.0: FIRE THERMOSTAT INTERNAL FIRE MODE	25	Y0.0: WASH SOLENOID #1	9	Y1.0: WASH SOLENOID #2	10
X0.1: EXTERNAL FIRE MODE REMOTE FIRE SW, ANSUL MICRO SWITCH, ETC)	18	Y0.1: ALARM/FIRE MODE	16	Y1.1: WASH SOLENOID #3	11
X0.2: LOW DETERGENT#1 (LOCAL)	20	Y0.2: DETERGENT PUMP#1 (LOCAL)	8	Y1.2: WASH SOLENOID #4	12
X0.3: DISABLE WASH SOLENOIDS DURING AN INTERNAL OR EXTERNAL FIRE	22	Y0.3: EXHAUST FAN	15	Y1.3: WASH SOLENOID #5	13
X0.4: WASH PERMISSIONS SIGNAL	23	Y0.4: SUPPLY FAN	14	Y1.4: WASH SOLENOID #6	29
X0.5: START FAN (EXTERNAL FROM ANOTHER CONTROL)	24	Y0.5: DAMPER DRIVE SIGNAL TO WASH POSITION (CONNECT TO CR9 INPUT)	CR11	Y1.5: WASH SOLENOID #7	30
X0.6: START WASH (EXTERNAL FROM ANOTHER CONTROL)	25	Y0.6: DETERGENT PUMP#2 (REMOTE) LOCATED IN REMOTE CABINET	28	Y1.6: WASH SOLENOID #8	31
X0.7: LOW DETERGENT#2 (REMOTE)	CR12.1	Y0.7: SOLENOID DRAIN	SD	Y1.7: WASH SOLENOID #9	32
X0.8: START FAN/START WASH (EXTERNAL FROM ANOTHER CONTROL)	27	Y0.COM: 120 VAC INPUT	5	Y1.COM: 120 VAC INPUT	6
X0.9: AUTOSTART TRIGGER	AS				
X:COM: 24 VDC NEGATIVE	–				

-- SUPPLY VOLTAGE --
120 VAC, 50–60Hz., 600 WATTS MAXIMUM
20 AMPS. MAXIMUM.

GENERAL NOTES

1. ALL EXTERNAL CONTROL WIRING SHALL BE 12 GAUGE MINIMUM OR AS PER APPLICABLE CODES.
2. THE HOLDING COILS WITHIN THE MAGNETIC STARTERS MUST MATCH THE SUPPLY VOLTAGE. MAGNETIC STARTERS ARE SUPPLIED BY OTHERS.
3. ALL VOLTAGE FREE CONTACTS FOR EXTERNAL SIGNALLING ARE RATED FOR 3A @ 240 VAC.
4. FIRE SWITCH TERMINALS 4 & FS
   TERMINALS FOR NORMALLY OPEN FIRE SUPPRESSION MICROSWITCH AND/OR REMOTE FIRE SWITCH WHICH ACTIVATES THE "EXTERNAL FIRE MODE".
5. FIRE SYSTEM TERMINALS Q1 & Q2
   CONTACTS OPEN WHEN CONTROL GOES INTO INTERNAL OR EXTERNAL FIRE MODES.
6. LOW DETERGENT TERMINALS 4 & LD
   DISPLAY WILL FLASH "LOW DETERGENT" WHEN ACTIVATED AND NOT IN WASH MODE. CUT JUMPER (J1), AND REMOVE ANY JUMPER BETWEEN #4 & LD WHEN INSTALLING FLOW SWITCH.
7. IN EXTERNAL FIRE MODE (REMOTE FIRE SWITCH CONTACTS CLOSED) TERMINAL #1 DE–ENERGIZES SHUTTING OFF SUPPLY FAN. TERMINAL #8 ENERGIZES TURNING ON EXHAUST FAN.
8. IN INTERNAL FIRE MODE (THERMOSTAT ACTIVATED) TERMINALS #1 AND #8 DE–ENERGIZE, SHUTTING OFF EXHAUST AND SUPPLY FANS.
9. CUT JUMPER (J2), AND REMOVE ANY JUMPER BETWEEN #15 & GXT WHEN GX2 OR N–97 DAMPER MOTORS ARE CONNECTED TO THIS CONTROL CABINET.

LEGEND

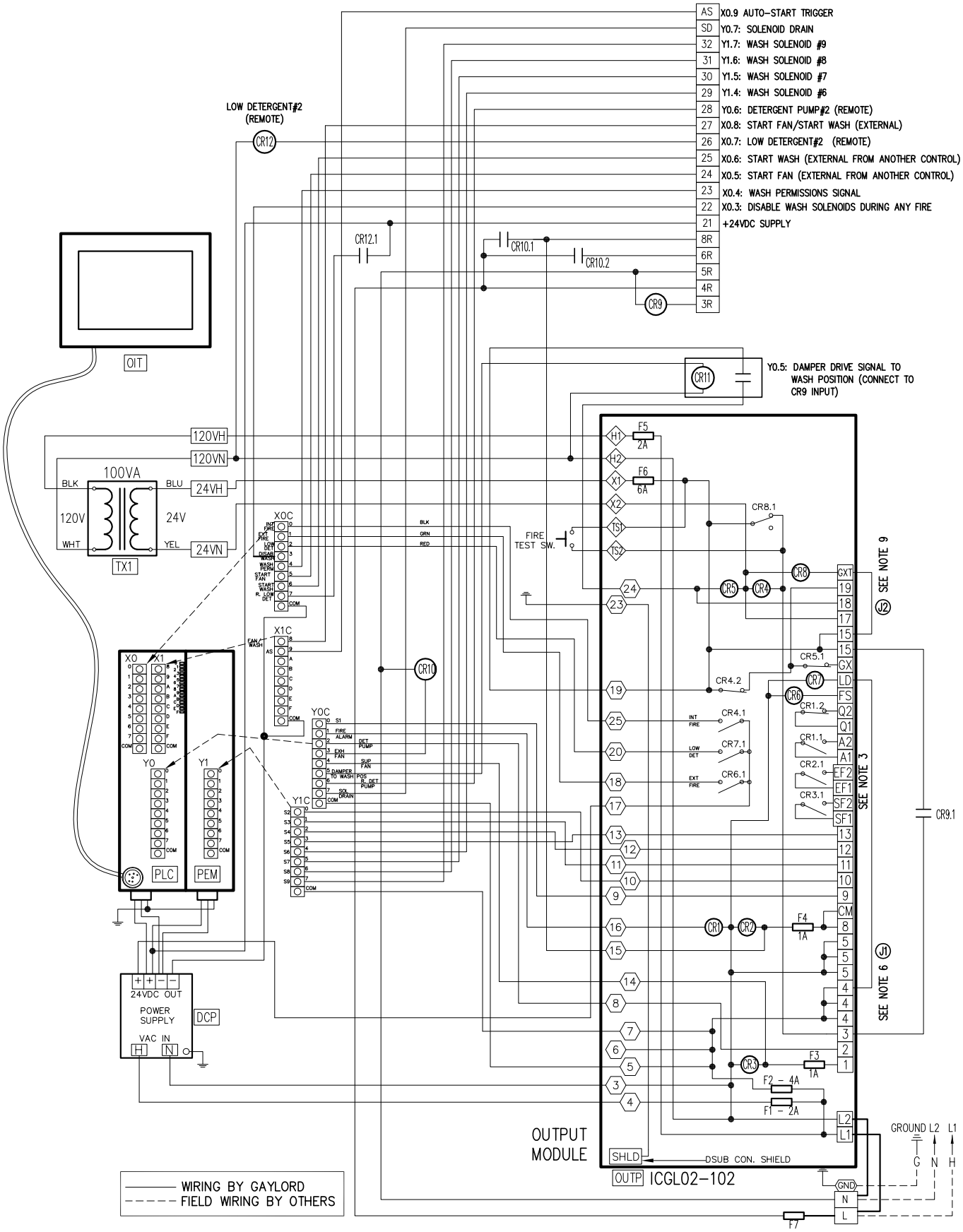
- (CR1) CONTROL RELAY
- [L1] TERMINAL STRIP CONNECTION
- ⟨0⟩ WIRE NUMBER
- COM PLC CONNECTOR

GENERAL NOTES

* 2ND PEM (PLC EXPANSION MODULE) NOT REQUIRED FOR AN"S9" OR LOWER. PEM IS REQUIRED FOR AN "S10" OR HIGHER.

* 100VA TRANSFORMER GOOD FOR UP TO 10 DAMPERS.

C-6000-D.1 INTERNAL WIRING



PLC I/O SCHEDULE

INPUTS		OUTPUTS			
X0.0: FIRE THERMOSTAT INTERNAL FIRE MODE	25	Y0.0: WASH SOLENOID #1	9	Y1.0: WASH SOLENOID #2	10
X0.1: EXTERNAL FIRE MODE REMOTE FIRE SW, ANSUL MICRO SWITCH, ETC)	18	Y0.1: ALARM/FIRE MODE	16	Y1.1: WASH SOLENOID #3	11
X0.2: LOW DETERGENT#1 (LOCAL)	20	Y0.2: DETERGENT PUMP#1 (LOCAL)	8	Y1.2: WASH SOLENOID #4	12
X0.3: DISABLE WASH SOLENOIDS DURING AN INTERNAL OR EXTERNAL FIRE	22	Y0.3: EXHAUST FAN	15	Y1.3: WASH SOLENOID #5	13
X0.4: WASH PERMISSIONS SIGNAL	23	Y0.4: SUPPLY FAN	14	Y1.4: WASH SOLENOID #6	29
X0.5: START FAN (EXTERNAL FROM ANOTHER CONTROL)	24	Y0.5: DAMPER DRIVE SIGNAL TO WASH POSITION (CONNECT TO CR9 INPUT)	CR11	Y1.5: WASH SOLENOID #7	30
X0.6: START WASH (EXTERNAL FROM ANOTHER CONTROL)	25	Y0.6: DETERGENT PUMP#2 (REMOTE) LOCATED IN REMOTE CABINET	28	Y1.6: WASH SOLENOID #8	31
X0.7: LOW DETERGENT#2 (REMOTE)	CR12.1	Y0.7: SOLENOID DRAIN	SD	Y1.7: WASH SOLENOID #9	32
X0.8: START FAN/START WASH (EXTERNAL FROM ANOTHER CONTROL)	27	Y0.COM: 120 VAC INPUT	5	Y1.COM: 120 VAC INPUT	6
X0.9: AUTOSTART TRIGGER	AS				
X:COM: 24 VDC NEGATIVE	–				

-- SUPPLY VOLTAGE --
120 VAC, 50–60Hz., 600 WATTS MAXIMUM
20 AMPS. MAXIMUM.

GENERAL NOTES

1. ALL EXTERNAL CONTROL WIRING SHALL BE 12 GAUGE MINIMUM OR AS PER APPLICABLE CODES.
2. THE HOLDING COILS WITHIN THE MAGNETIC STARTERS MUST MATCH THE SUPPLY VOLTAGE. MAGNETIC STARTERS ARE SUPPLIED BY OTHERS.
3. ALL VOLTAGE FREE CONTACTS FOR EXTERNAL SIGNALLING ARE RATED FOR 3A @ 240 VAC.
4. FIRE SWITCH TERMINALS 4 & FS
   TERMINALS FOR NORMALLY OPEN FIRE SUPPRESSION MICROSWITCH AND/OR REMOTE FIRE SWITCH WHICH ACTIVATES THE "EXTERNAL FIRE MODE".
5. FIRE SYSTEM TERMINALS Q1 & Q2
   CONTACTS OPEN WHEN CONTROL GOES INTO INTERNAL OR EXTERNAL FIRE MODES.
6. LOW DETERGENT TERMINALS 4 & LD
   DISPLAY WILL FLASH "LOW DETERGENT" WHEN ACTIVATED AND NOT IN WASH MODE. CUT JUMPER (J1), AND REMOVE ANY JUMPER BETWEEN #4 & LD WHEN INSTALLING FLOW SWITCH.
7. IN EXTERNAL FIRE MODE (REMOTE FIRE SWITCH CONTACTS CLOSED) TERMINAL #1 DE–ENERGIZES SHUTTING OFF SUPPLY FAN. TERMINAL #8 ENERGIZES TURNING ON EXHAUST FAN.
8. IN INTERNAL FIRE MODE (THERMOSTAT ACTIVATED) TERMINALS #1 AND #8 DE–ENERGIZE, SHUTTING OFF EXHAUST AND SUPPLY FANS.
9. CUT JUMPER (J2), AND REMOVE ANY JUMPER BETWEEN #15 & GXT WHEN GX2 OR N–97 DAMPER MOTORS ARE CONNECTED TO THIS CONTROL CABINET.

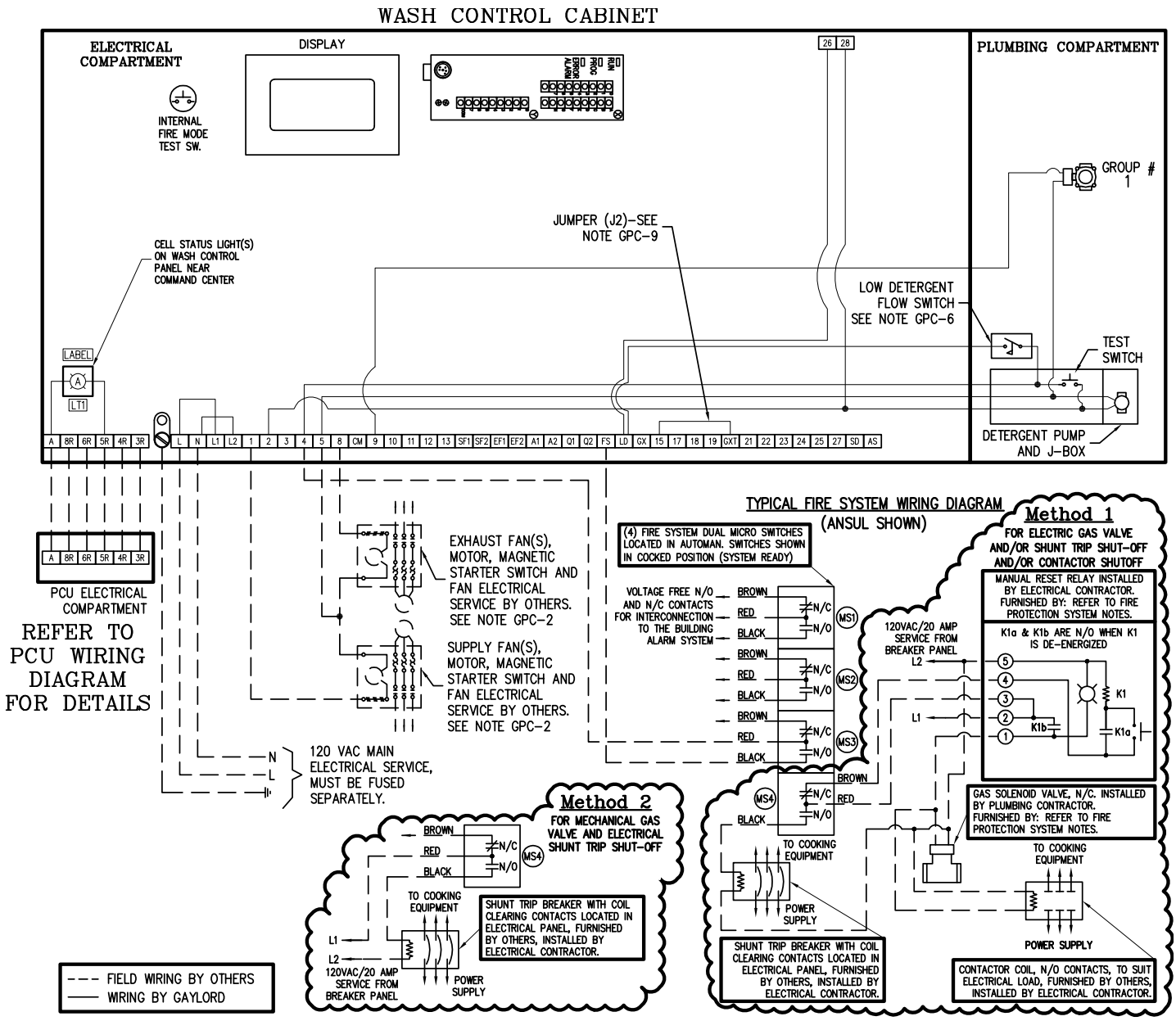
LEGEND

- (CR1) CONTROL RELAY
- [L1] TERMINAL STRIP CONNECTION
- ⟨0⟩ WIRE NUMBER
- COM PLC CONNECTOR

GENERAL NOTES

* 2ND PEM (PLC EXPANSION MODULE) NOT REQUIRED FOR AN"S9" OR LOWER. PEM IS REQUIRED FOR AN "S10" OR HIGHER.

* 100VA TRANSFORMER GOOD FOR UP TO 10 DAMPERS.


WASH CONTROL CABINET
ELECTRICAL COMPARTMENT
DISPLAY
INTERNAL FIRE MODE TEST SW.
26 28
PLUMBING COMPARTMENT
GROUP # 1
JUMPER (J2)-SEE NOTE GPC-9
CELL STATUS LIGHT(S) ON WASH CONTROL PANEL NEAR COMMAND CENTER
LOW DETERGENT FLOW SWITCH SEE NOTE GPC-6
TEST SWITCH
LABEL
LT1
DETERGENT PUMP AND J-BOX
A 8R 6R 5R 4R 3R L N L1 L2 1 2 3 4 5 8 CM 9 10 11 12 13 SF1 SF2 EF1 EF2 A1 A2 Q1 Q2 FS LD GX 15 17 18 19 GXT 21 22 23 24 25 27 SD AS
PCU ELECTRICAL COMPARTMENT
REFER TO PCU WIRING DIAGRAM FOR DETAILS
EXHAUST FAN(S), MOTOR, MAGNETIC STARTER SWITCH AND FAN ELECTRICAL SERVICE BY OTHERS. SEE NOTE GPC-2
SUPPLY FAN(S), MOTOR, MAGNETIC STARTER SWITCH AND FAN ELECTRICAL SERVICE BY OTHERS. SEE NOTE GPC-2
N
L
120 VAC MAIN ELECTRICAL SERVICE, MUST BE FUSED SEPARATELY.
TYPICAL FIRE SYSTEM WIRING DIAGRAM (ANSUL SHOWN)
(4) FIRE SYSTEM DUAL MICRO SWITCHES LOCATED IN AUTOMAN. SWITCHES SHOWN IN COCKED POSITION (SYSTEM READY)
VOLTAGE FREE N/O AND N/C CONTACTS FOR INTERCONNECTION TO THE BUILDING ALARM SYSTEM
BROWN
RED
BLACK
N/C
N/O
MS1
MS2
MS3
MS4
Method 1
FOR ELECTRIC GAS VALVE AND/OR SHUNT TRIP SHUT-OFF AND/OR CONTACTOR SHUTOFF
MANUAL RESET RELAY INSTALLED BY ELECTRICAL CONTRACTOR. FURNISHED BY: REFER TO FIRE PROTECTION SYSTEM NOTES.
120VAC/20 AMP SERVICE FROM BREAKER PANEL
L2
L1
K1a & K1b ARE N/O WHEN K1 IS DE-ENERGIZED
K1
K1b
K1a
GAS SOLENOID VALVE, N/C. INSTALLED BY PLUMBING CONTRACTOR. FURNISHED BY: REFER TO FIRE PROTECTION SYSTEM NOTES.
TO COOKING EQUIPMENT
POWER SUPPLY
SHUNT TRIP BREAKER WITH COIL CLEARING CONTACTS LOCATED IN ELECTRICAL PANEL, FURNISHED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR.
CONTACTOR COIL, N/O CONTACTS, TO SUIT ELECTRICAL LOAD, FURNISHED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR.
Method 2
FOR MECHANICAL GAS VALVE AND ELECTRICAL SHUNT TRIP SHUT-OFF
SHUNT TRIP BREAKER WITH COIL CLEARING CONTACTS LOCATED IN ELECTRICAL PANEL, FURNISHED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR.
120VAC/20 AMP SERVICE FROM BREAKER PANEL
--- FIELD WIRING BY OTHERS
—— WIRING BY GAYLORD

-- SUPPLY VOLTAGE -- 120 VAC, 60Hz. 15 AMPS MAXIMUM – CONNECTED LOAD		
TRM	TERMINATION SCHEDULE	TYPE
L	MAIN POWER CONNECTION : HOT	120VAC
N	MAIN POWER CONNECTION : NEUTRAL	0 V
L1	MAIN POWER CONNECTION : HOT DO NOT CONNECT INCOMING POWER	120VAC
L2	MAIN POWER CONNECTION : NEUTRAL DO NOT CONNECT INCOMING POWER	0 V
1	OUTPUT–SUP. FAN STARTER (1 AMP MAX.)	120VAC
2	OUTPUT TO DETERGENT PUMP – HOOD(S)	120VAC
3	THERMOSTAT RETURN – HOOD(S)	24VAC
4	FUSED SUPPLY TO PLC OUTPUTS & ETC	120VAC
5	120VAC NEUTRAL LEG	0 V
8	OUTPUT–EXH. FAN STARTER (1 AMP MAX.)	120VAC
CM	OUTPUT TO COLD WATER MIST SOLENOID	120VAC
9	OUTPUT TO WASH SOLENOID VALVE #1	120VAC
10	OUTPUT TO WASH SOLENOID VALVE #2	120VAC
11	OUTPUT TO WASH SOLENOID VALVE #3	120VAC
12	OUTPUT TO WASH SOLENOID VALVE #4	120VAC
13	OUTPUT TO WASH SOLENOID VALVE #5	120VAC
SF1	N.O. DRY CONTACTS FOR SUPPLY FAN	N/A
SF2	REMOTE CONTROL CENTER	N/A
EF1	N.O. DRY CONTACTS FOR EXHAUST FAN	N/A
EF2	REMOTE CONTROL CENTER	N/A
A1	N.O. DRY CONTACTS FOR INTERFACE TO	N/A
A2	BUILDING FIRE ALARM / MONITOR SYSTEM	N/A
Q1	N.C. DRY CONTACTS FOR INTERFACE TO	N/A
Q2	BUILDING FIRE ALARM / MONITOR SYSTEM	N/A
FS	INPUT FROM REMOTE FIRE SWITCH	120VAC
LD	INPUT FROM DETERGENT FLOW SWITCH	120VAC
GX	POWER FOR GX2 DAMPER ACTUATORS	24VAC
15	OUTPUT TO THERMOSTAT(S)	24VAC
17	24VAC COMMON	0 V
18	CG3 DAMPER DRIVE SIGNAL	0–24VAC
19	POWER FOR CG3 DAMPER ACTUATORS	24VAC
GXT	THERMOSTAT RETURN FOR GX2 HOODS	24VAC

21	SUPPLY TO OUTPUTS	24VDC
22	DISABLE WASH SOLENOIDS DURING AN INT. OR EXT. FIRE MODE JUMPER	24VDC INPUT
23	INPUT – WASH START PERMISSION FROM A REMOTE LOCATION	24VDC INPUT
24	INPUT – START FAN SIGNAL FROM A REMOTE LOCATION	24VDC INPUT
25	INPUT – START WASH SIGNAL FROM A REMOTE LOCATION	24VDC INPUT
26	INPUT – LOW DETERGENT SIGNAL (SUB PANEL / ESP WASHES)	120VAC INPUT
27	INPUT – START FAN/START WASH SIGNL FROM A REMOTE LOCATION	24VDC INPUT
28	OUTPUT – DETERGENT PUMP # 2 (SUB PANEL / RSPC–ESP)	120VAC
SD	OUTPUT – SOLENOID DRAIN	120VAC
AS	INPUT – "TST" TEMPERATURE SENSING THERMOSTAT	24VDC INPUT

TRM	TERMINATION SCHEDULE	TYPE
3R	THERMOSTAT RETURN – PCU	120VAC
4R	FUSED SUPPLY – PCU	120VAC
5R	120VAC NEUTRAL LEG – PCU	0VAC
6R	SWITCHED POWER FOR PCU POWER PACKS	120VAC
8R	CONTROL VOLTAGE TO MAG STARTER	120VAC

A	CELL STATUS LIGHT INPUT	120VAC

WASH CONTROL WIRING NOTES

GPC-1) ALL EXTERNAL CONTROL WIRING SHALL BE 12 GAUGE MINIMUM OR AS PER APPLICABLE CODES.

GPC-2) THE HOLDING COILS WITHIN THE MAGNETIC STARTERS MUST MATCH THE SUPPLY VOLTAGE. MAGNETIC STARTERS ARE SUPPLIED BY OTHERS.

GPC-3) ALL VOLTAGE FREE CONTACTS FOR EXTERNAL SIGNALING ARE RATED FOR 3A @ 240 VAC.

GPC-4) FIRE SWITCH TERMINALS 4 & FS
TERMINALS FOR NORMALLY OPEN FIRE SUPPRESSION MICRO SWITCH AND/OR REMOTE FIRE SWITCH WHICH ACTIVATES THE "EXTERNAL FIRE MODE".

GPC-5) FIRE SYSTEM TERMINALS Q1 & Q2
CONTACTS OPEN WHEN CONTROL GOES INTO INTERNAL OR EXTERNAL FIRE MODES.

GPC-6) LOW DETERGENT TERMINALS LD & 4
DISPLAY WILL FLASH "LOW DETERGENT" WHEN ACTIVATED AND NOT IN WASH MODE.
CUT JUMPER (J1), AND REMOVE ANY JUMPER BETWEEN #4 & LD WHEN INSTALLING FLOW SWITCH.

GPC-7) EXTERNAL FIRE MODE (REMOTE FIRE SWITCH CONTACTS CLOSED) TERMINAL #1 DE-ENERGIZES SHUTTING OFF SUPPLY FAN. TERMINAL #8 ENERGIZES TURNING ON EXHAUST FAN.

GPC-8) INTERNAL FIRE MODE (THERMOSTAT ACTIVATED) TERMINALS #1 AND #8 DE-ENERGIZE, SHUTTING OFF EXHAUST AND SUPPLY FANS.

GPC-9) CUT JUMPER (J2), AND REMOVE ANY JUMPER BETWEEN #15 & GXT WHEN GX2 OR N-97 DAMPER MOTORS ARE CONNECTED TO THIS CONTROL CABINET.

GPC-10) REMOTE LOW DETERGENT TERMINALS 26 & 4
DISPLAY WILL FLASH "LOW DETERGENT" WHEN ACTIVATED AND NOT IN WASH MODE.
REMOVE ANY JUMPER BETWEEN #4 & 26 WHEN INSTALLING FLOW SWITCH.

GPC-11) DISABLE WASH DURING AN INTERNAL OR EXTERNAL FIRE MODE TERMINALS 22 & 21
ADD A JUMPER BETWEEN #22 & #21 WHEN THE WATER SOLENOIDS SHOULD BE DISABLED DURING A FIRE.

GPC-12) REMOTE WASH START PERMISSIONS INPUT TERMINALS 23 & 21
USE A SET OF DRY N/C CONTACTS THAT OPEN WHEN THE WASH MODE CAN START.

GPC-13) REMOTE START FAN INPUT TERMINALS 24 & 21
USE A SET OF DRY N/O CONTACTS THAT CLOSE MOMENTARILY WHEN THE FAN SHOULD START.

GPC-14) REMOTE START WASH INPUT TERMINALS 25 & 21
USE A SET OF DRY N/O CONTACTS THAT CLOSE MOMENTARILY WHEN THE WASH SHOULD START.

GPC-15) REMOTE START FAN & WASH INPUT TERMINALS 27 & 21
USE A SET OF DRY N/O CONTACTS THAT CLOSE AND STAY CLOSED WHILE THE FAN SHOULD BE ON. WHEN THE CONTACTS OPEN THE FAN WILL SHUT OFF AND THE WASH WILL START.

GPC-16) REMOTE DETERGENT PUMP SIGNAL TERMINALS 28 & 5
TERMINAL #28 WILL ONLY HAVE 120V ON IT WHEN THE CONTROL IS IN A ESP WASH ONLY IT WILL NOT COME ON IN A HOOD WASH.

GPC-17) LOCAL DETERGENT PUMP SIGNAL TERMINALS 2 & 5
TERMINAL # 2 WILL ONLY HAVE 120V ON IT WHEN THE CONTROL IS IN A HOOD WASH ONLY IT WILL NOT COME ON IN A ESP WASH.

GPC-18) AUTOSTART TERMINALS "AS" & 21
EXHAUST & SUPPLY FAN WILL START WHEN TERMINAL "AS" RECEIVES A SIGNAL FROM "TST", IF FAN AND WASH ARE NOT ALREADY RUNNING.

C-6000-D TERMINAL VOLTAGES

TERMINAL	DESCRIPTION	FAN OFF	FAN ON	WASH ON	INT. FIRE	EXT. FIRE
L	Main Power Connection : Hot	120 VAC				
N	Main Power Connection : Neutral	Common				
L1	Main Power Connection : Hot *** Do NOT Connect Incoming Power ***	120 VAC				
L2	Main Power Connection : Neutral *** Do NOT Connect Incoming Power ***	Common				
1	Output to Supply Fan Motor Starter	0 VAC	120 VAC	0 VAC	0 VAC	0 VAC
2	Output to Detergent Pump	0 VAC	0 VAC	120 VAC	0 VAC	0 VAC
3	Thermostat Return	0 VAC	0 VAC	0 VAC	24 VAC	0 VAC
4	Fused Supply to PLC Outputs & Etc.	120 VAC	120 VAC	120 VAC	120 VAC	120 VAC
5	120 VAC Neutral Leg	High Voltage Common				
8	Output to Exhaust Fan Motor Starter	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
CM	Output to Cold Water Mist Solenoid	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
9	Output to Wash Solenoid Valve #1	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
10	Output to Wash Solenoid Valve #2	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
11	Output to Wash Solenoid Valve #3	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
12	Output to Wash Solenoid Valve #4	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
13	Output to Wash Solenoid Valve #5	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
SF1 SF2	N.O. Dry Contacts for Supply Fan Remote Control Center	Open	Closed	Open	Open	Open
EF1 EF2	N.O. Dry Contacts for Exhaust Fan Remote Control Center	Open	Closed	Open	Open	Closed
A1 A2	N.O. Dry Contacts for Interface to Building Fire Alarm / Monitor System	Open	Open	Open	Closed	Closed
Q1 Q2	N.C. Dry Contacts for Interface to Fire System Fuel Shutoff Control	Closed	Closed	Closed	Open	Open
FS	Input from Remote Fire Switch	0 VAC	0 VAC	0 VAC	0 VAC	120 VAC
(1) LD	Input from Detergent Flow Switch	NO Low Detergent Sensor (Jumper J1 is present)				
		120 VAC	120 VAC	120 VAC	120 VAC	120 VAC
(2) LD	Input from Detergent Flow Switch	Low Detergent Sensor (Jumper J1 is cut or NOT present)				
		0 VAC	0 VAC	0 VAC	0 VAC	0 VAC
GX	Power for GX2 Damper Actuators	0 VAC	24 VAC	0 VAC	0 VAC	24 VAC
15	Output to Thermostat(s)	24 VAC	24 VAC	24 VAC	24 VAC	24 VAC
17	24 VAC Common	Low Voltage Common				
18	CG3 Damper Drive Signal	24 VAC	0 VAC	24 VAC	0 VAC	0 VAC
19	Power for CG3 Damper Actuators	24 VAC	24 VAC	24 VAC	0 VAC	24 VAC
GXT	Thermostat Return for GX2 Hoods	24 VAC	24 VAC	24 VAC	0 VAC	24 VAC
LC	Low Odor Control Chemical Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC

(1) 120 VAC - Jumper is installed between LD and #4 or Jumper J1 is present
(No LD/Detergent Flow Switch present)

(2) 120 VAC - LD (Detergent Flow Switch) is installed and Detergent Pump is running and Detergent is present
0 VAC - LD (Detergent Flow Switch) is installed and Detergent Pump is running and Detergent is NOT present

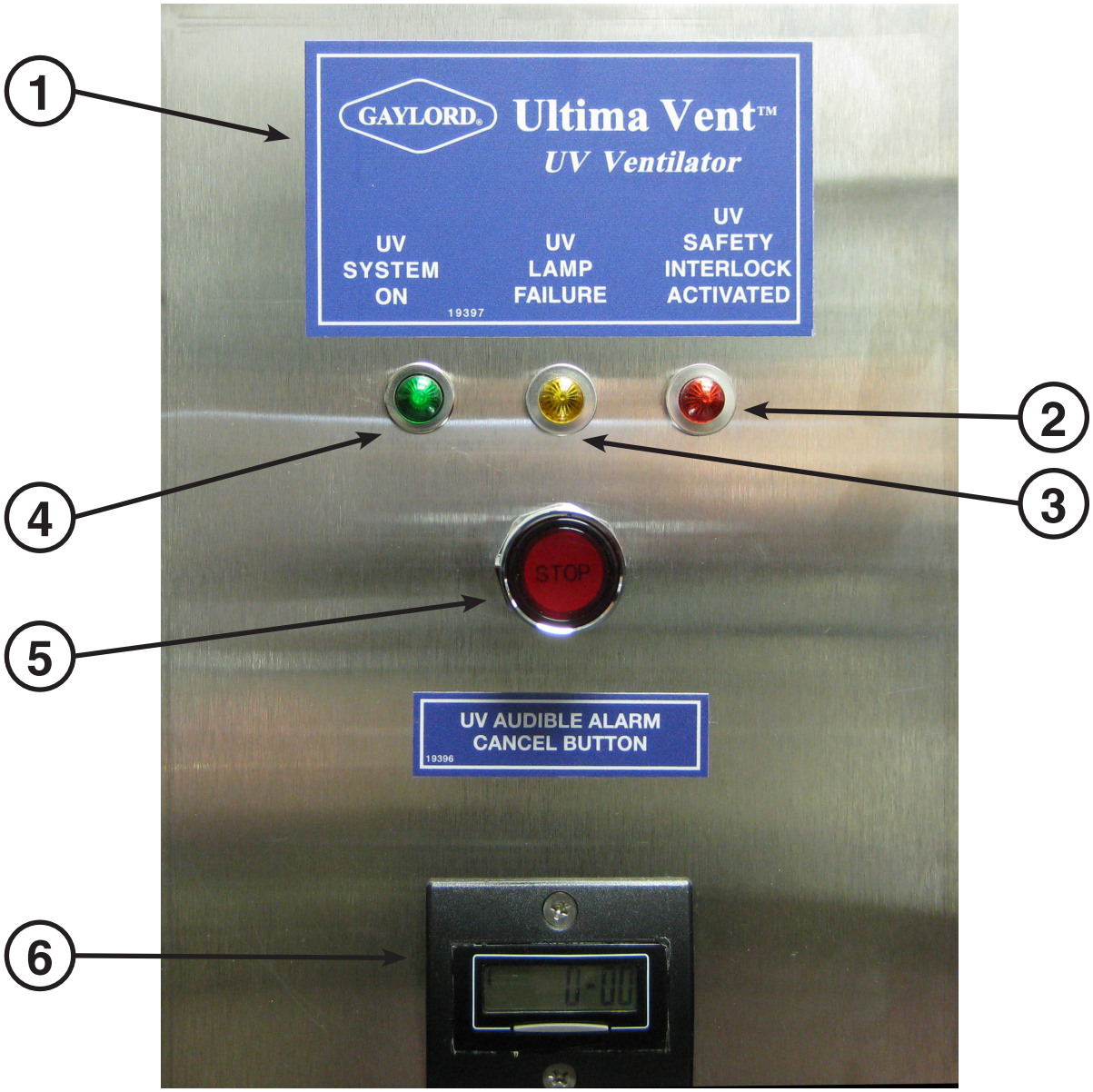
C-6000-D TERMINAL VOLTAGES

	TERMINAL	DESCRIPTION	FAN OFF	FAN ON	WASH ON	INT. FIRE	EXT. FIRE
(3)	3R	Thermostat Return - ClearAir Unit	0 VAC	0 VAC	0 VAC	120 VAC (NOTE 3)	0 VAC
	4R	Fused Supply to ClearAir Unit	120 VAC				
	5R	120 VAC Neutral Leg to ClearAir Unit	High Voltage Common				
	6R	Switched Power for Power Packs	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	8R	Control Voltage to Mag Starter	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	A	Cell Status Light Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	B	Cell Status Light Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	C	Cell Status Light Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	D	Cell Status Light Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	E	Cell Status Light Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	F	Cell Status Light Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	G	Cell Status Light Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	H	Cell Status Light Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	21	Supply to Outputs	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
	22	Disable Wash Solenoids During an Int. or Ext. Fire Mode Jumper (OPTIONAL)	24 VDC INPUT TO TERMINAL 22 IF USED				
	23	Input - Wash Start Permission From a Remote Location (OPTIONAL)	24 VDC INPUT TO TERMINAL 23 IF USED				
	24	Input - Start Fan Signal From a Remote Location (OPTIONAL)	24 VDC INPUT TO TERMINAL 24 WILL INITIATE THE FAN ON MODE				
	25	Input - Start Wash Signal From a Remote Location (OPTIONAL)	24 VDC INPUT TO TERMINAL 25 WILL INITIATE THE WASH ON MODE				
(1)	26	Input - Low Detergent Signal Sub Panel / ESP Washes	NO Low Detergent Sensor (Jumper is present)				
			120 VAC	120 VAC	120 VAC	120 VAC	120 VAC
(2)	26	Input - Low Detergent Signal Sub Panel / ESP Washes	Low Detergent Sensor Installed				
			0 VAC	0 VAC	0 VAC	0 VAC	0 VAC
	27	Input - Start Fan / Start Wash Signal From a Remote Location	FAN ON 24VDC SIGNAL, LOSS OF 24VDC SIGNAL WILL PUT CONTROL INTO A WASH MODE				
	28	Output - Detergent Pump #2 Sub Panel / ESP	0 VAC	0 VAC	120 VAC	0 VAC	0 VAC
	29	Output to Wash Solenoid Valve #6	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
	30	Output to Wash Solenoid Valve #7	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
	31	Output to Wash Solenoid Valve #8	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
	32	Output to Wash Solenoid Valve #9	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
	SD	Solenoid Drain	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
	AS	Autostart Input	24VDC whenever Autostart Thermostats are activated				
	33	Output to Wash Solenoid Valve #10	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
	34	Output to Wash Solenoid Valve #11	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
	35	Output to Wash Solenoid Valve #12	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
	36	Output to Wash Solenoid Valve #13	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC

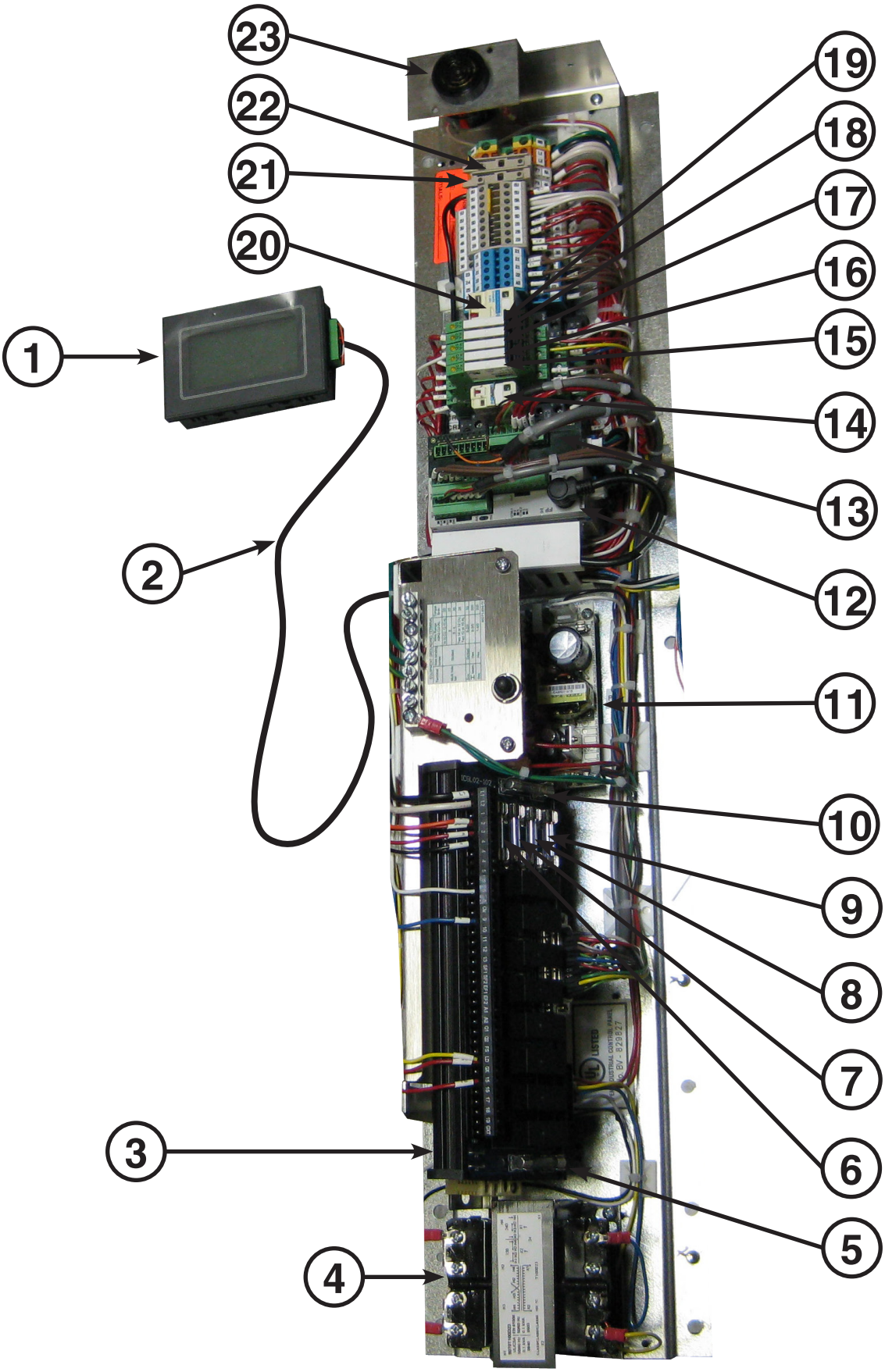
(1) 120 VAC - Jumper is installed between LD and #26 (No LD/Detergent Flow Switch present)

(2) 120 VAC - LD (Detergent Flow Switch) is installed and Detergent Pump is running and Detergent is present
0 VAC - LD (Detergent Flow Switch) is installed and Detergent Pump is running and Detergent is NOT present

(3) 120 VAC - The only time that terminal 3R will be energized with 120 VAC is if a thermostat located in the RSPC-D unit is activated



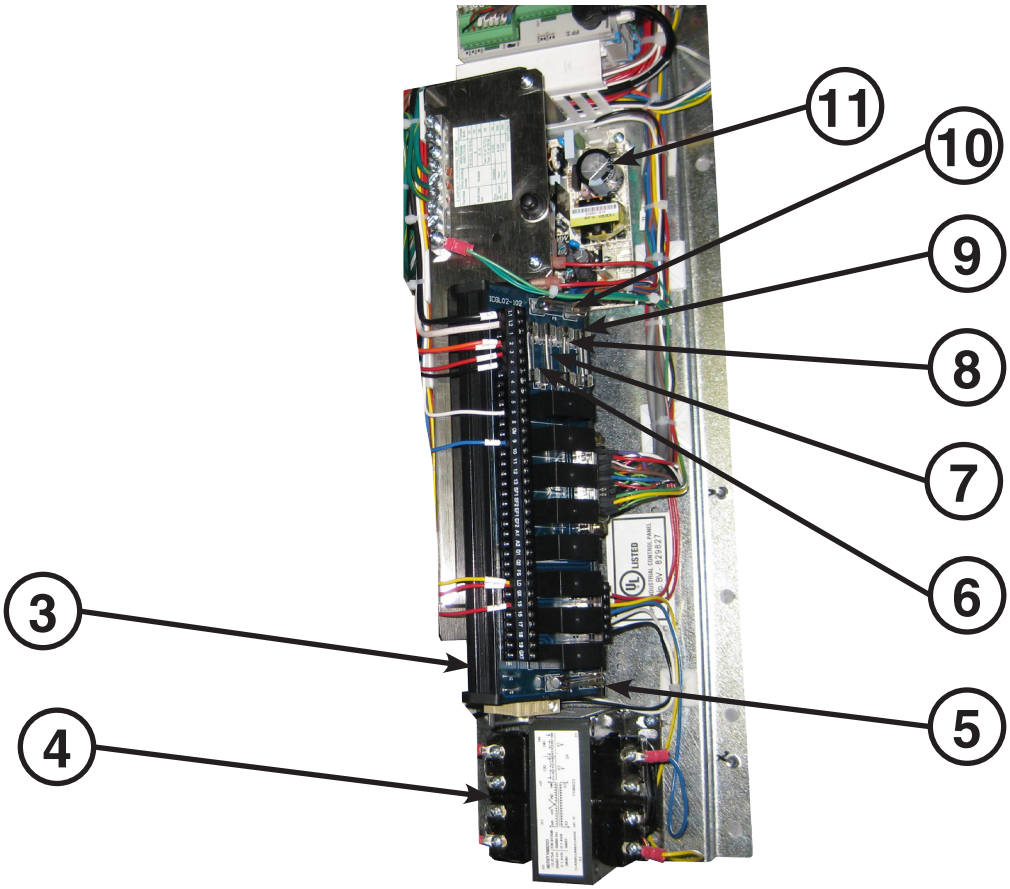
ITEM #	TAG Internal Wiring Diagram	DESCRIPTION	GAYLORD PART #
1	N/A	UV Status Light Label	19397
2	LT3	Indicator Light - Red	12510
3	LT2	Indicator Light - Yellow	19162
4	LT1	Indicator Light - Green	12512
5	CANCEL	Cancel Switch	19076
6	HM	UV Hour Meter	19164


23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1

C-6000-D-UV PARTS LIST

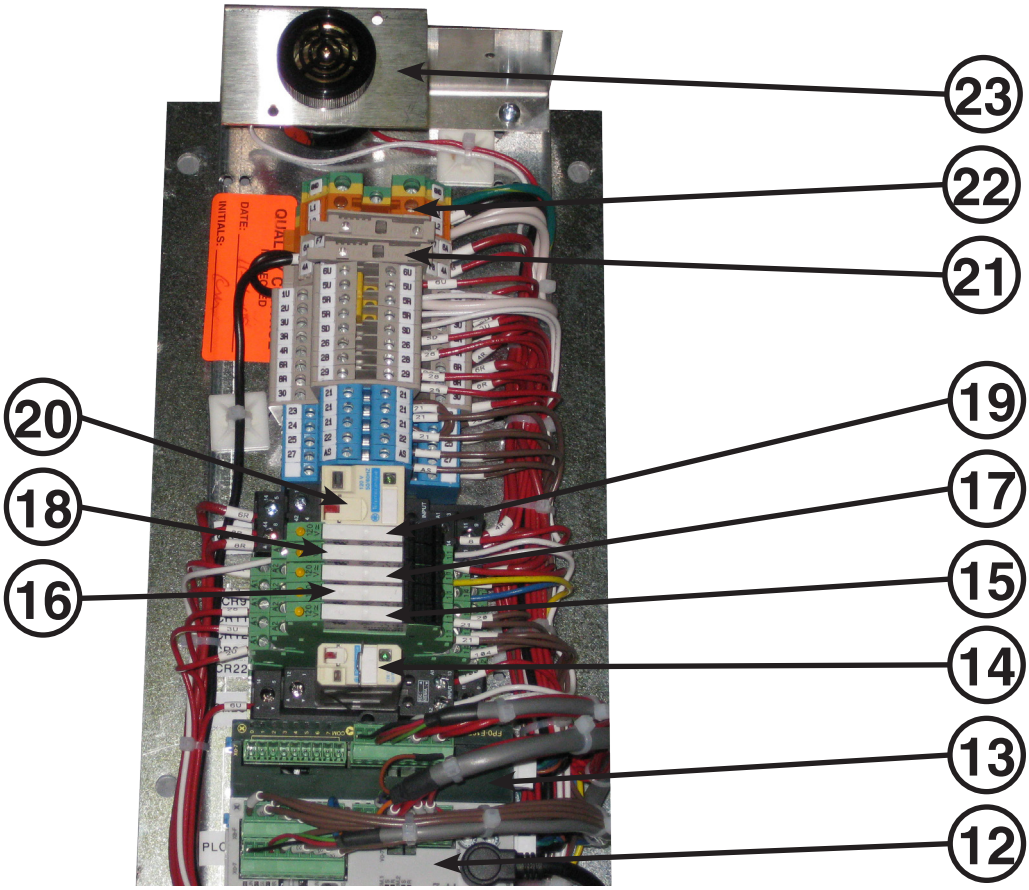
	ITEM #	TAG Internal Wiring Diagram	DESCRIPTION	GAYLORD PART #	MFR PART #
		OIT	C-6000-D HMI w/ Program	20115	
	2	N/A	HMI Cable	20107	
	3	OUTP	C-6000-B Output Module	18983	
	4	TX1	24VAC Transformer (100VA)	18981	
	5	F6	Fuse (F6) - 6 Amp Transformer - Secondary	19020	BUSS AGC-6
	6	F1	Fuse (F1) - 2 Amp 24VDC Power Supply	13062	BUSS AGC-2
	7	F2	Fuse (F2) - 4 Amp PLC - 120VAC	10039	BUSS AGC-4
	8	F3	Fuse (F3) - 1 Amp Supply Fan Mag. Starter	19027	BUSS MDL-1
	9	F4	Fuse (F4) - 1 Amp Exhaust Fan Mag. Starter	19027	BUSS MDL-1
	10	F5	Fuse (F5) - 2 Amp Transformer - Primary	13062	BUSS AGC-2
	11	DCP	24VDC Power Supply (underneath)	18863	
	12	PLC	C-6000-D PLC w/ Program	20114	
	13	PEM	PLC Expansion Module (Optional)	18867	
	14	CR23	Control Relay [CR23] (UV Output - 6U)	11399	
			Socket (SPDT)	11413	
	15	CR22	Control Relay [CR22] (UV Input - Lamp Failure - 2U)	20116	
			Socket (SPDT)	20117	
	16	CR21	Control Relay [CR21] (UV Input - Safety Interlock - 3U)	20116	
			Socket (SPDT)	20117	
	17	CR12	Control Relay [CR12] (Remote Low Detergent - 26)	20116	
			Socket (SPDT)	20117	
	18	CR11	Control Relay [CR11] (Damper Drive Signal)	20116	
			Socket (SPDT)	20117	
	19	CR9	Control Relay [CR9] (RSPC-ESP Fire Input - 3R)	20116	
			Socket (SPDT)	20117	
C-6000-D	20	CR10	Control Relay [CR10] (ESP/SPC Cells - Start Signal)	11399	
			Socket (SPDT)	11413	
C-6000-D.1	20	CR10	Control Relay [CR10] (ESP/SPC Cells - Start Signal)	10283	
			Socket (DPDT)	10295	
	21	F8	Fuse (F8) - 4 Amp ESP Outputs (4R, 6R, 8R)	16822	BUSS GDB-4
	22	F7	Fuse (F7) - 4 Amp UV Output (6U)	17061	BUSS GDB-4
	23	BUZZER	Sonalert - UV Audible Alarm	19319	

C-6000-D-UV PARTS LIST



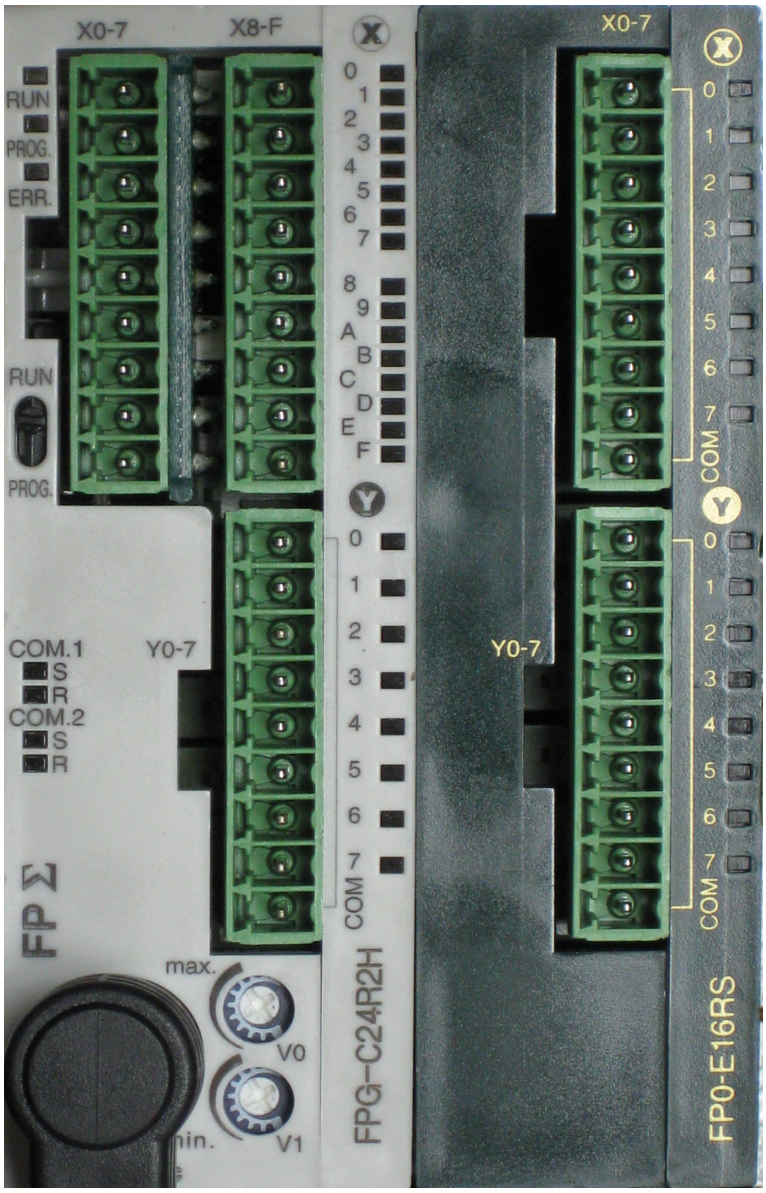
ITEM #	TAG Internal Wiring Diagram	DESCRIPTION		GAYLORD PART #	MFR PART #
3	OUTP	C-6000-B Output Module		18983	
4	TX1	24VAC Transformer (100VA)		18981	
5	F6	Fuse (F6) - 6 Amp	Transformer - Secondary	19020	BUSS AGC-6
6	F1	Fuse (F1) - 2 Amp	24VDC Power Supply	13062	BUSS AGC-2
7	F2	Fuse (F2) - 4 Amp	PLC - 120VAC	10039	BUSS AGC-4
8	F3	Fuse (F3) - 1 Amp	Supply Fan Mag. Starter	19027	BUSS MDL-1
9	F4	Fuse (F4) - 1 Amp	Exhaust Fan Mag. Starter	19027	BUSS MDL-1
10	F5	Fuse (F5) - 2 Amp	Transformer - Primary	13062	BUSS AGC-2
11	DCP	24VDC Power Supply	(underneath)	18863	

C-6000-D-UV PARTS LIST



	ITEM #	TAG Internal Wiring Diagram	DESCRIPTION	GAYLORD PART #	MFR PART #
	12	PLC	C-6000-D PLC w/ Program	20114	
	13	PEM	PLC Expansion Module (Optional)	18867	
	14	CR23	Control Relay [CR23] (UV Output - 6U)	11399	
			Socket (SPDT)	11413	
	15	CR22	Control Relay [CR22] (UV Input - Lamp Failure - 2U)	20116	
			Socket (SPDT)	20117	
	16	CR21	Control Relay [CR21] (UV Input - Safety Interlock - 3U)	20116	
			Socket (SPDT)	20117	
	17	CR12	Control Relay [CR12] (Remote Low Detergent - 26)	20116	
			Socket (SPDT)	20117	
	18	CR11	Control Relay [CR11] (Damper Drive Signal)	20116	
			Socket (SPDT)	20117	
	19	CR9	Control Relay [CR9] (RSPC-ESP Fire Input - 3R)	20116	
			Socket (SPDT)	20117	
C-6000-D	20	CR10	Control Relay [CR10] (ESP/SPC Cells - Start Signal)	11399	
			Socket (SPDT)	11413	
C-6000-D.1	20	CR10	Control Relay [CR10] (ESP/SPC Cells - Start Signal)	10283	
			Socket (DPDT)	10295	
	21	F8	Fuse (F8) - 4 Amp ESP Outputs (4R, 6R, 8R)	16822	BUSS GDB-4
	22	F7	Fuse (F7) - 4 Amp UV Output (6U)	17061	BUSS GDB-4
	23	BUZZER	Sonalert - UV Audible Alarm	19319	

C-6000-D-UV PLC STATUS LIGHTS



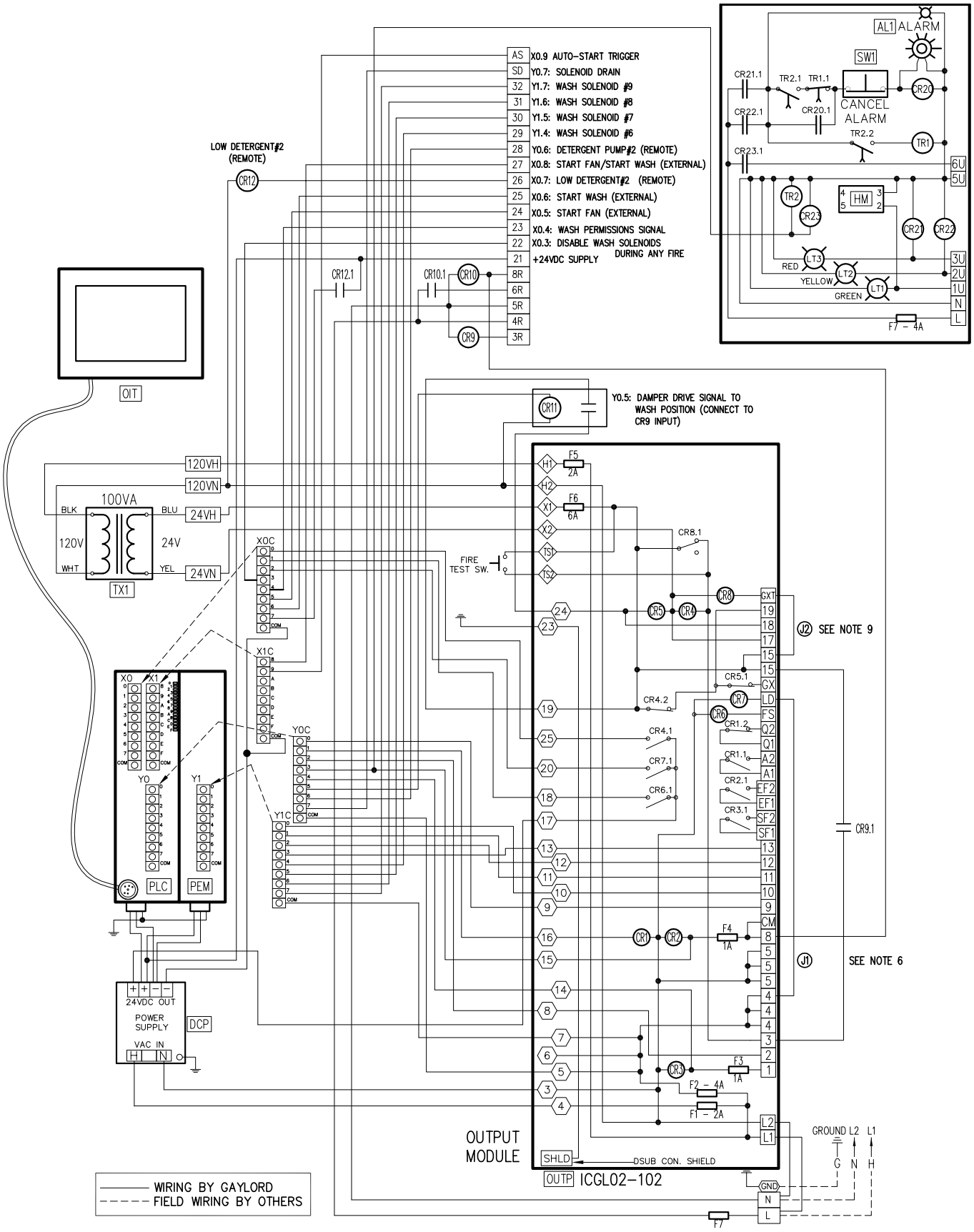
EXPANSION MODULE #2 SEQUENTIAL "S8-S13"	(SEQUENTIAL WASH "S8-S13") DESCRIPTION - EXPANSION MODULE #2		
	Y (Outputs)	**DESCRIPTION OF STATUS LIGHTS**	**GENERAL DESCRIPTION**
	0	**On** when Wash Solenoid # 8 should be open.	Wash Solenoid #8
	1	**On** when Wash Solenoid # 9 should be open.	Wash Solenoid #9
	2	**On** when Wash Solenoid # 10 should be open.	Wash Solenoid #10
	3	**On** when Wash Solenoid # 11 should be open.	Wash Solenoid #11
	4	**On** when Wash Solenoid # 12 should be open.	Wash Solenoid #12
	5	**On** when Wash Solenoid # 13 should be open.	Wash Solenoid #13
	6	Spare	
	7	Spare	
	COM	Never comes on	

C-6000-D-UV PLC STATUS LIGHTS

PLC	STANDARD (SINGLE OR SEQUENTIAL WASH) DESCRIPTION - PLC		
	X (Inputs)	**DESCRIPTION OF STATUS LIGHTS**	**GENERAL DESCRIPTION**
	0	**On** while “Fire Test Switch” is pushed and held, or hood is in Internal Fire Mode. **Off** during "Cool Down Cycle".	Internal Fire Mode
	1	**On** when hood is in External Fire Mode (Ansul), or Break Glass Pull Station is activated	External Fire Mode
	2	**On** normally. It shuts **off** if cabinet is equipped with Low Detergent alert feature and the detergent is low.	Low Detergent (Local)
	3	**Off** normally. **On** when Jumper is installed to disable Wash Solenoids from opening during Internal Fire Mode and External Fire Modes.	Disable Wash Solenoids during an Internal or External Fire
	4	**Off** normally. **On** when Jumper is installed to enable Wash Permission Signal.	Wash Permission Signal
	5	**On** when signal from External Control is sent to Start Fan	Start Fan (External)
	6	**On** when signal from External Control is sent to Start Wash	Start Wash (External)
	7	**On** normally. It shuts **off** if cabinet is equipped with Low Detergent alert feature and the detergent is low.	Low Detergent (Remote)
	8	**On** when signal from External Control is sent to Start Fan	Start Fan/Start Wash (External)
	9	**On** when signal from Autostart is active	Autostart Input
	A	**On** when UV Safety Interlock active	UV - Safety Interlock Active
	B	**On** when UV Lamp Failure Light On	UV - Lamp Failure
	C	**On** when UV Canel Alarm button is pressed	UV - Cancel Alarm Input
	D	Not Used	
	E	Not Used	
	F	Not Used	
	Y (Outputs)	**DESCRIPTION OF PLC STATUS LIGHTS**	**GENERAL DESCRIPTION**
	0	**On** when Wash Solenoid # 1 should be open.	Wash Solenoid #1
	1	**On** during an Internal or External Fire Mode. **On** during "Cool Down Cycle".	Alarm / Fire Mode
	2	**On** when Detergent Pump (Local) should be **on**.	Detergent Pump (Local)
	3	**On** when Exhaust Fan should be **on**.	Exhaust Fan
	4	**On** when Supply Fan should be **on**.	Supply Fan
	5	**On** when damper is in "Wash" position, or while damper is moving to "Wash" position	Damper Drive Signal to Wash Position
	6	**On** when Detergent Pump (Remote) should be **on**.	Detergent Pump (Remote)
	7	**On** when Solenoid Drain should be energized	Solenoid Drain
	COM	Never comes on	

EXPANSION MODULE #1 SEQUENTIAL “S2-S7”	(SEQUENTIAL WASH “S2-S7”) DESCRIPTION - EXPANSION MODULE #1		
	Y (Outputs)	**DESCRIPTION OF STATUS LIGHTS**	**GENERAL DESCRIPTION**
	0	**On** when Wash Solenoid # 2 should be open.	Wash Solenoid #2
	1	**On** when Wash Solenoid # 3 should be open.	Wash Solenoid #3
	2	**On** when Wash Solenoid # 4 should be open.	Wash Solenoid #4
	3	**On** when Wash Solenoid # 5 should be open.	Wash Solenoid #5
	4	**On** when Wash Solenoid # 6 should be open.	Wash Solenoid #6
	5	**On** when Wash Solenoid # 7 should be open.	Wash Solenoid #7
	6	**On** when Audible Alarm Active	UV Audible Alarm Buzzer
	7	**On** when Audible Alarm Active	UV Audible Alarm Light
	COM	Never comes on	

C-6000-D-UV INTERNAL WIRING



PLC I/O SCHEDULE

INPUTS		OUTPUTS			
X0.0: FIRE THERMOSTAT INTERNAL FIRE MODE	25	Y0.0: WASH SOLENOID #1	9	Y1.0: WASH SOLENOID #2	10
X0.1: EXTERNAL FIRE MODE REMOTE FIRE SW, ANSUL MICRO SWITCH, ETC)	18	Y0.1: ALARM/FIRE MODE	16	Y1.1: WASH SOLENOID #3	11
X0.2: LOW DETERGENT#1 (LOCAL)	20	Y0.2: DETERGENT PUMP#1 (LOCAL)	8	Y1.2: WASH SOLENOID #4	12
X0.3: DISABLE WASH SOLENOIDS DURING AN INTERNAL OR EXTERNAL FIRE	22	Y0.3: EXHAUST FAN	15	Y1.3: WASH SOLENOID #5	13
X0.4: WASH PERMISSIONS SIGNAL	23	Y0.4: SUPPLY FAN	14	Y1.4: WASH SOLENOID #6	29
X0.5: START FAN (EXTERNAL FROM ANOTHER CONTROL)	24	Y0.5: DAMPER DRIVE SIGNAL TO WASH POSITION (CONNECT TO CR9 INPUT)	CR11	Y1.5: WASH SOLENOID #7	30
X0.6: START WASH (EXTERNAL FROM ANOTHER CONTROL)	25	Y0.6: DETERGENT PUMP#2 (REMOTE) LOCATED IN REMOTE CABINET	28	Y1.6: WASH SOLENOID #8	31
X0.7: LOW DETERGENT#2 (REMOTE)	CR12.1	Y0.7: SOLENOID DRAIN	SD	Y1.7: WASH SOLENOID #9	32
X0.8: START FAN/START WASH (EXTERNAL FROM ANOTHER CONTROL)	27	Y0.COM: 120 VAC INPUT	5	Y1.COM: 120 VAC INPUT	6
X0.9: AUTOSTART TRIGGER	AS				
X:COM: 24 VDC NEGATIVE	–				

-- SUPPLY VOLTAGE --
120 VAC, 50–60Hz., 600 WATTS MAXIMUM
20 AMPS. MAXIMUM.

GENERAL NOTES

1. ALL EXTERNAL CONTROL WIRING SHALL BE 12 GAUGE MINIMUM OR AS PER APPLICABLE CODES.
2. THE HOLDING COILS WITHIN THE MAGNETIC STARTERS MUST MATCH THE SUPPLY VOLTAGE. MAGNETIC STARTERS ARE SUPPLIED BY OTHERS.
3. ALL VOLTAGE FREE CONTACTS FOR EXTERNAL SIGNALLING ARE RATED FOR 3A @ 240 VAC.
4. FIRE SWITCH TERMINALS 4 & FS
   TERMINALS FOR NORMALLY OPEN FIRE SUPPRESSION MICROSWITCH AND/OR REMOTE FIRE SWITCH WHICH ACTIVATES THE "EXTERNAL FIRE MODE".
5. FIRE SYSTEM TERMINALS Q1 & Q2
   CONTACTS OPEN WHEN CONTROL GOES INTO INTERNAL OR EXTERNAL FIRE MODES.
6. LOW DETERGENT TERMINALS 4 & LD
   DISPLAY WILL FLASH "LOW DETERGENT" WHEN ACTIVATED AND NOT IN WASH MODE. CUT JUMPER (J1), AND REMOVE ANY JUMPER BETWEEN #4 & LD WHEN INSTALLING FLOW SWITCH.
7. IN EXTERNAL FIRE MODE (REMOTE FIRE SWITCH CONTACTS CLOSED) TERMINAL #1 DE–ENERGIZES SHUTTING OFF SUPPLY FAN. TERMINAL #8 ENERGIZES TURNING ON EXHAUST FAN.
8. IN INTERNAL FIRE MODE (THERMOSTAT ACTIVATED) TERMINALS #1 AND #8 DE–ENERGIZE, SHUTTING OFF EXHAUST AND SUPPLY FANS.
9. CUT JUMPER (J2), AND REMOVE ANY JUMPER BETWEEN #15 & GXT WHEN GX2 OR N–97 DAMPER MOTORS ARE CONNECTED TO THIS CONTROL CABINET.

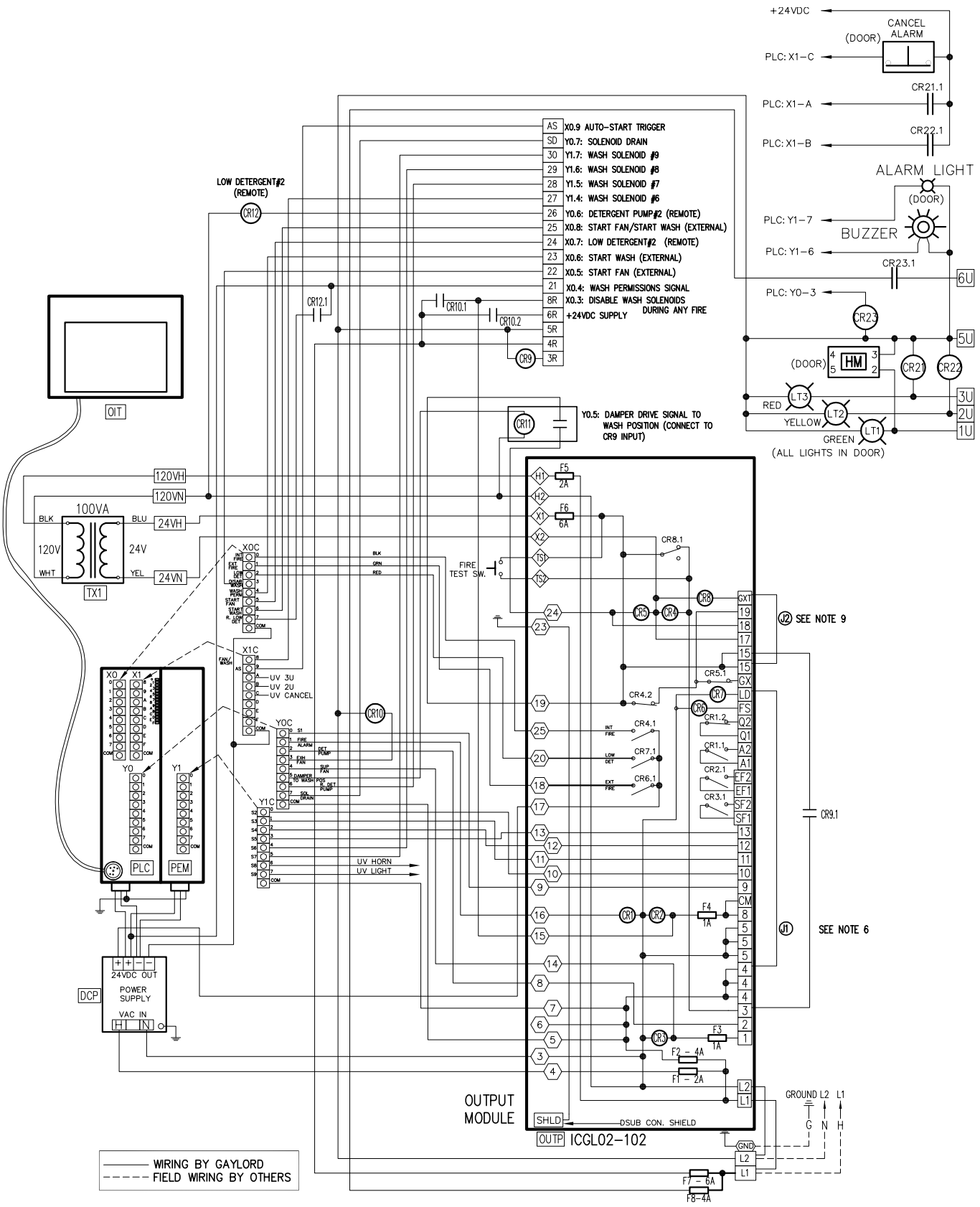
LEGEND

- (CR1) CONTROL RELAY
- [L1] TERMINAL STRIP CONNECTION
- ⟨0⟩ WIRE NUMBER
- COM PLC CONNECTOR

GENERAL NOTES

* 2ND PEM (PLC EXPANSION MODULE) NOT REQUIRED FOR AN"S9" OR LOWER. PEM IS REQUIRED FOR AN "S10" OR HIGHER.
* 100VA TRANSFORMER GOOD FOR UP TO 10 DAMPERS.

C-6000-D-UV.1 INTERNAL WIRING



PLC I/O SCHEDULE

INPUTS		OUTPUTS			
X0.0: FIRE THERMOSTAT INTERNAL FIRE MODE	25	Y0.0: WASH SOLENOID #1	9	Y1.0: WASH SOLENOID #2	10
X0.1: EXTERNAL FIRE MODE REMOTE FIRE SW, ANSUL MICRO SWITCH, ETC)	18	Y0.1: ALARM/FIRE MODE	16	Y1.1: WASH SOLENOID #3	11
X0.2: LOW DETERGENT#1 (LOCAL)	20	Y0.2: DETERGENT PUMP#1 (LOCAL)	8	Y1.2: WASH SOLENOID #4	12
X0.3: DISABLE WASH SOLENOIDS DURING AN INTERNAL OR EXTERNAL FIRE	22	Y0.3: EXHAUST FAN	15	Y1.3: WASH SOLENOID #5	13
X0.4: WASH PERMISSIONS SIGNAL	23	Y0.4: SUPPLY FAN	14	Y1.4: WASH SOLENOID #6	29
X0.5: START FAN (EXTERNAL FROM ANOTHER CONTROL)	24	Y0.5: DAMPER DRIVE SIGNAL TO WASH POSITION (CONNECT TO CR9 INPUT)	CR11	Y1.5: WASH SOLENOID #7	30
X0.6: START WASH (EXTERNAL FROM ANOTHER CONTROL)	25	Y0.6: DETERGENT PUMP#2 (REMOTE) LOCATED IN REMOTE CABINET	28	Y1.6: UV BUZZER	
X0.7: LOW DETERGENT#2 (REMOTE)	CR12.1	Y0.7: SOLENOID DRAIN	SD	Y1.7: UV MODULE	
X:COM: 24 VDC NEGATIVE	–	Y0.COM: 120 VAC INPUT	5	Y1.COM: 120 VAC INPUT	6
X0.8: START FAN/START WASH (EXTERNAL FROM ANOTHER CONTROL)	27			Y2.0: WASH SOLENOID #8	31
X:COM: 24 VDC NEGATIVE	–			Y2.1: WASH SOLENOID #9	32
				Y2.2: WASH SOLENOID #10	33
				Y2.3: WASH SOLENOID #11	34
				Y2.4: WASH SOLENOID #12	35
				Y2.5: WASH SOLENOID #13	36
				Y2.6: SPARE	37
				Y2.7: SPARE	38
				Y2.COM: 120 VAC INPUT	6

2ND EXPANSION MODULE

-- SUPPLY VOLTAGE --
120 VAC, 50–60Hz., 600 WATTS MAXIMUM
20 AMPS. MAXIMUM.

GENERAL NOTES

1. ALL EXTERNAL CONTROL WIRING SHALL BE 12 GAUGE MINIMUM OR AS PER APPLICABLE CODES.
2. THE HOLDING COILS WITHIN THE MAGNETIC STARTERS MUST MATCH THE SUPPLY VOLTAGE. MAGNETIC STARTERS ARE SUPPLIED BY OTHERS.
3. ALL VOLTAGE FREE CONTACTS FOR EXTERNAL SIGNALLING ARE RATED FOR 3A @ 240 VAC.
4. FIRE SWITCH TERMINALS 4 & FS
   TERMINALS FOR NORMALLY OPEN FIRE SUPPRESSION MICROSWITCH AND/OR REMOTE FIRE SWITCH WHICH ACTIVATES THE "EXTERNAL FIRE MODE".
5. FIRE SYSTEM TERMINALS Q1 & Q2
   CONTACTS OPEN WHEN CONTROL GOES INTO INTERNAL OR EXTERNAL FIRE MODES.
6. LOW DETERGENT TERMINALS 4 & LD
   DISPLAY WILL FLASH "LOW DETERGENT" WHEN ACTIVATED AND NOT IN WASH MODE. CUT JUMPER (J1), AND REMOVE ANY JUMPER BETWEEN #4 & LD WHEN INSTALLING FLOW SWITCH.
7. IN EXTERNAL FIRE MODE (REMOTE FIRE SWITCH CONTACTS CLOSED) TERMINAL #1 DE-ENERGIZES SHUTTING OFF SUPPLY FAN. TERMINAL #8 ENERGIZES TURNING ON EXHAUST FAN.
8. IN INTERNAL FIRE MODE (THERMOSTAT ACTIVATED) TERMINALS #1 AND #8 DE-ENERGIZE, SHUTTING OFF EXHAUST AND SUPPLY FANS.
9. CUT JUMPER (J2), AND REMOVE ANY JUMPER BETWEEN #15 & GXT WHEN GX2 OR N-97 DAMPER MOTORS ARE CONNECTED TO THIS CONTROL CABINET.

LEGEND

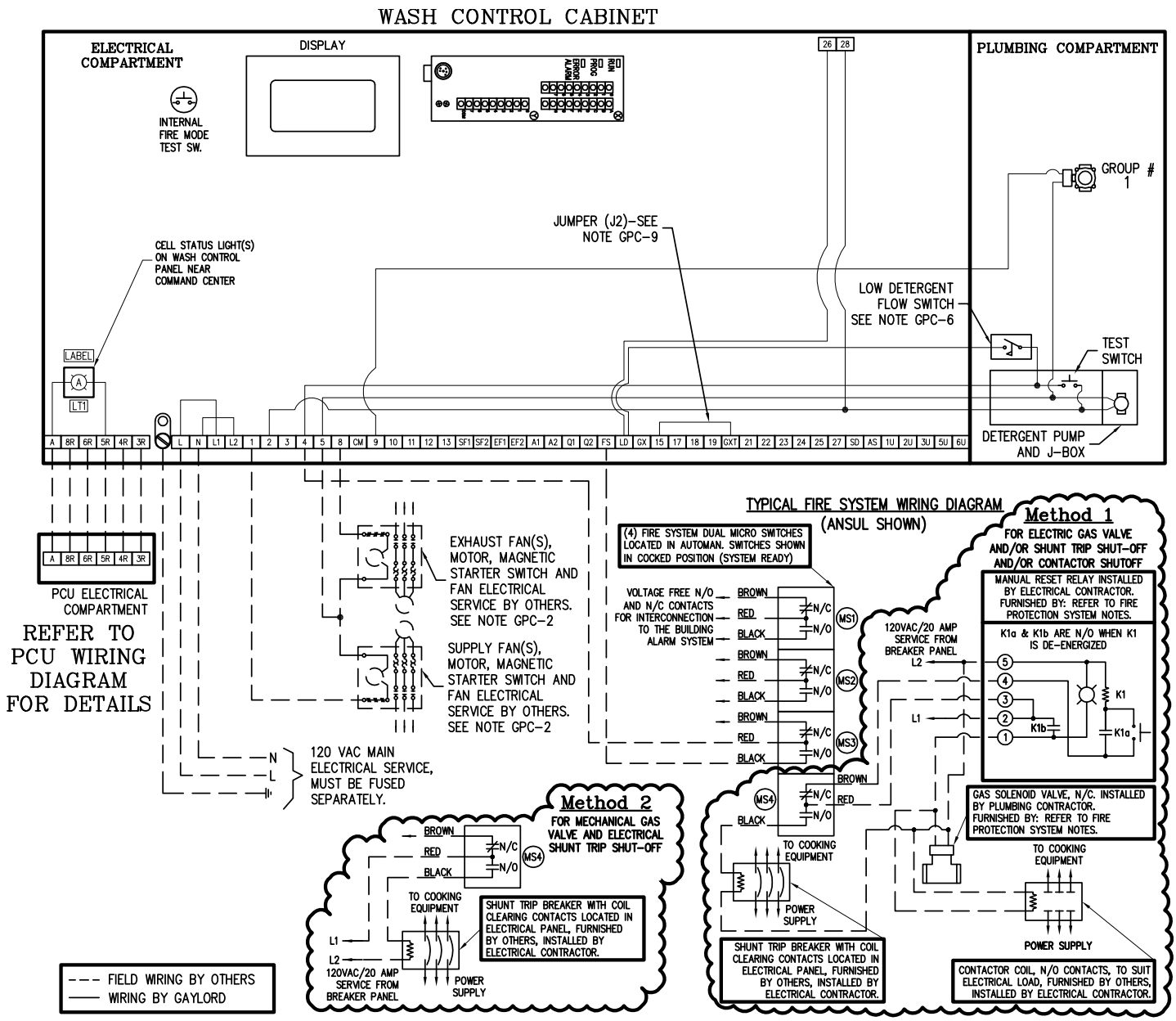
- (CR1) CONTROL RELAY
- [L1] TERMINAL STRIP CONNECTION
- (0) WIRE NUMBER
- [COM] PLC CONNECTOR

GENERAL NOTES

* 2ND PEM (PLC EXPANSION MODULE) NOT REQUIRED FOR AN"S9" OR LOWER. PEM IS REQUIRED FOR AN "S10" OR HIGHER.

* 100VA TRANSFORMER GOOD FOR UP TO 10 DAMPERS.

C-6000-D-UV EXTERNAL WIRING



-- SUPPLY VOLTAGE -- 120 VAC, 60Hz. 15 AMPS MAXIMUM – CONNECTED LOAD		
TRM	TERMINATION SCHEDULE	TYPE
L	MAIN POWER CONNECTION : HOT	120VAC
N	MAIN POWER CONNECTION : NEUTRAL	0 V
L1	MAIN POWER CONNECTION : HOT DO NOT CONNECT INCOMING POWER	120VAC
L2	MAIN POWER CONNECTION : NEUTRAL DO NOT CONNECT INCOMING POWER	0 V
1	OUTPUT–SUP. FAN STARTER (1 AMP MAX.)	120VAC
2	OUTPUT TO DETERGENT PUMP – HOOD(S)	120VAC
3	THERMOSTAT RETURN – HOOD(S)	24VAC
4	FUSED SUPPLY TO PLC OUTPUTS & ETC	120VAC
5	120VAC NEUTRAL LEG	0 V
8	OUTPUT–EXH. FAN STARTER (1 AMP MAX.)	120VAC
CM	OUTPUT TO COLD WATER MIST SOLENOID	120VAC
9	OUTPUT TO WASH SOLENOID VALVE #1	120VAC
10	OUTPUT TO WASH SOLENOID VALVE #2	120VAC
11	OUTPUT TO WASH SOLENOID VALVE #3	120VAC
12	OUTPUT TO WASH SOLENOID VALVE #4	120VAC
13	OUTPUT TO WASH SOLENOID VALVE #5	120VAC
SF1	N.O. DRY CONTACTS FOR SUPPLY FAN	N/A
SF2	REMOTE CONTROL CENTER	N/A
EF1	N.O. DRY CONTACTS FOR EXHAUST FAN	N/A
EF2	REMOTE CONTROL CENTER	N/A
A1	N.O. DRY CONTACTS FOR INTERFACE TO	N/A
A2	BUILDING FIRE ALARM / MONITOR SYSTEM	N/A
Q1	N.C. DRY CONTACTS FOR INTERFACE TO	N/A
Q2	BUILDING FIRE ALARM / MONITOR SYSTEM	N/A
FS	INPUT FROM REMOTE FIRE SWITCH	120VAC
LD	INPUT FROM DETERGENT FLOW SWITCH	120VAC
GX	POWER FOR GX2 DAMPER ACTUATORS	24VAC
15	OUTPUT TO THERMOSTAT(S)	24VAC
17	24VAC COMMON	0 V
18	CG3 DAMPER DRIVE SIGNAL	0–24VAC
19	POWER FOR CG3 DAMPER ACTUATORS	24VAC
GXT	THERMOSTAT RETURN FOR GX2 HOODS	24VAC

21	SUPPLY TO OUTPUTS	24VDC
22	DISABLE WASH SOLENOIDS DURING AN INT. OR EXT. FIRE MODE JUMPER	24VDC INPUT
23	INPUT – WASH START PERMISSION FROM A REMOTE LOCATION	24VDC INPUT
24	INPUT – START FAN SIGNAL FROM A REMOTE LOCATION	24VDC INPUT
25	INPUT – START WASH SIGNAL FROM A REMOTE LOCATION	24VDC INPUT
26	INPUT – LOW DETERGENT SIGNAL (SUB PANEL / ESP WASHES)	120VAC INPUT
27	INPUT – START FAN/START WASH SIGNL FROM A REMOTE LOCATION	24VDC INPUT
28	OUTPUT – DETERGENT PUMP # 2 (SUB PANEL / RSPC–ESP)	120VAC
SD	OUTPUT – SOLENOID DRAIN	120VAC
AS	INPUT – "TST" TEMPERATURE SENSING THERMOSTAT	24VDC INPUT

TRM	TERMINATION SCHEDULE	TYPE
3R	THERMOSTAT RETURN – PCU	120VAC
4R	FUSED SUPPLY – PCU	120VAC
5R	120VAC NEUTRAL LEG – PCU	0VAC
6R	SWITCHED POWER FOR PCU POWER PACKS	120VAC
8R	CONTROL VOLTAGE TO MAG STARTER	120VAC

TRM	TERMINATION SCHEDULE	TYPE
1U	INPUT FROM "UV SYSTEM ON" (GREEN)	120VAC
2U	INPUT FROM "UV LAMP FAILURE" (AMBER)	120VAC
3U	INPUT FROM "UV SAFETY INTERLOCK" (RED)	120VAC
5U	NEUTRAL LEG	0V
6U	OUTPUT TO UV LAMPS CONTACTOR	120VAC

A	CELL STATUS LIGHT INPUT	120VAC

C-6000-D-UV TERMINAL VOLTAGES

TERMINAL	DESCRIPTION	FAN OFF	FAN ON	WASH ON	INT. FIRE	EXT. FIRE
L	Main Power Connection : Hot	120 VAC				
N	Main Power Connection : Neutral	Common				
L1	Main Power Connection : Hot *** Do NOT Connect Incoming Power ***	120 VAC				
L2	Main Power Connection : Neutral *** Do NOT Connect Incoming Power ***	Common				
1	Output to Supply Fan Motor Starter	0 VAC	120 VAC	0 VAC	0 VAC	0 VAC
2	Output to Detergent Pump	0 VAC	0 VAC	120 VAC	0 VAC	0 VAC
3	Thermostat Return	0 VAC	0 VAC	0 VAC	24 VAC	0 VAC
4	Fused Supply to PLC Outputs & Etc.	120 VAC	120 VAC	120 VAC	120 VAC	120 VAC
5	120 VAC Neutral Leg	High Voltage Common				
8	Output to Exhaust Fan Motor Starter	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
CM	Output to Cold Water Mist Solenoid	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
9	Output to Wash Solenoid Valve #1	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
10	Output to Wash Solenoid Valve #2	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
11	Output to Wash Solenoid Valve #3	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
12	Output to Wash Solenoid Valve #4	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
13	Output to Wash Solenoid Valve #5	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
SF1 SF2	N.O. Dry Contacts for Supply Fan Remote Control Center	Open	Closed	Open	Open	Open
EF1 EF2	N.O. Dry Contacts for Exhaust Fan Remote Control Center	Open	Closed	Open	Open	Closed
A1 A2	N.O. Dry Contacts for Interface to Building Fire Alarm / Monitor System	Open	Open	Open	Closed	Closed
Q1 Q2	N.C. Dry Contacts for Interface to Fire System Fuel Shutoff Control	Closed	Closed	Closed	Open	Open
FS	Input from Remote Fire Switch	0 VAC	0 VAC	0 VAC	0 VAC	120 VAC
(1) LD	Input from Detergent Flow Switch	NO Low Detergent Sensor (Jumper J1 is present)				
		120 VAC	120 VAC	120 VAC	120 VAC	120 VAC
(2) LD	Input from Detergent Flow Switch	Low Detergent Sensor (Jumper J1 is cut or NOT present)				
		0 VAC	0 VAC	0 VAC	0 VAC	0 VAC
GX	Power for GX2 Damper Actuators	0 VAC	24 VAC	0 VAC	0 VAC	24 VAC
15	Output to Thermostat(s)	24 VAC	24 VAC	24 VAC	24 VAC	24 VAC
17	24 VAC Common	Low Voltage Common				
18	CG3 Damper Drive Signal	24 VAC	0 VAC	24 VAC	0 VAC	0 VAC
19	Power for CG3 Damper Actuators	24 VAC	24 VAC	24 VAC	0 VAC	24 VAC
GXT	Thermostat Return for GX2 Hoods	24 VAC	24 VAC	24 VAC	0 VAC	24 VAC
LC	Low Odor Control Chemical Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC

(1) 120 VAC - Jumper is installed between LD and #4 or Jumper J1 is present
(No LD/Detergent Flow Switch present)

(2) 120 VAC - LD (Detergent Flow Switch) is installed and Detergent Pump is running and Detergent is present
0 VAC - LD (Detergent Flow Switch) is installed and Detergent Pump is running and Detergent is NOT present

C-6000-D-UV TERMINAL VOLTAGES

	TERMINAL	DESCRIPTION	FAN OFF	FAN ON	WASH ON	INT. FIRE	EXT. FIRE
(3)	3R	Thermostat Return - ClearAir Unit	0 VAC	0 VAC	0 VAC	120 VAC (NOTE 3)	0 VAC
	4R	Fused Supply to ClearAir Unit	120 VAC				
	5R	120 VAC Neutral Leg to ClearAir Unit	High Voltage Common				
	6R	Switched Power for Power Packs	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	8R	Control Voltage to Mag Starter	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	A	Cell Status Light Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	B	Cell Status Light Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	C	Cell Status Light Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	D	Cell Status Light Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	E	Cell Status Light Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	F	Cell Status Light Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	G	Cell Status Light Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	H	Cell Status Light Input	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC
	21	Supply to Outputs	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
	22	Disable Wash Solenoids During an Int. or Ext. Fire Mode Jumper (OPTIONAL)	24 VDC INPUT TO TERMINAL 22 IF USED				
	23	Input - Wash Start Permission From a Remote Location (OPTIONAL)	24 VDC INPUT TO TERMINAL 23 IF USED				
	24	Input - Start Fan Signal From a Remote Location (OPTIONAL)	24 VDC INPUT TO TERMINAL 24 WILL INITIATE THE FAN ON MODE				
	25	Input - Start Wash Signal From a Remote Location (OPTIONAL)	24 VDC INPUT TO TERMINAL 25 WILL INITIATE THE WASH ON MODE				
(1)	26	Input - Low Detergent Signal Sub Panel / ESP Washes	NO Low Detergent Sensor (Jumper is present)				
			120 VAC	120 VAC	120 VAC	120 VAC	120 VAC
(2)	26	Input - Low Detergent Signal Sub Panel / ESP Washes	Low Detergent Sensor Installed				
			0 VAC	0 VAC	0 VAC	0 VAC	0 VAC
	27	Input - Start Fan / Start Wash Signal From a Remote Location	FAN ON 24VDC SIGNAL, LOSS OF 24VDC SIGNAL WILL PUT CONTROL INTO A WASH MODE				
	28	Output - Detergent Pump #2 Sub Panel / ESP	0 VAC	0 VAC	120 VAC	0 VAC	0 VAC
	29	Output to Wash Solenoid Valve #6	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
	30	Output to Wash Solenoid Valve #7	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
	31	Output to Wash Solenoid Valve #8	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
	32	Output to Wash Solenoid Valve #9	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
	SD	Solenoid Drain	0 VAC	0 VAC	120 VAC	120 VAC	120 VAC
	AS	Autostart Input	24VDC whenever Autostart Thermostats are activated				

UV Components

L	Main Power Connection : Hot	120 VAC	120 VAC	120 VAC	120 VAC	120 VAC
N	Main Power Connection : Neutral	Common				
1U	Input from "UV System On" (Green)	0 VAC	*	0 VAC	0 VAC	*
2U	Input from "UV Lamp Failure" (Amber)	0 VAC	*	0 VAC	0 VAC	*
3U	Input from "UV Safety Interlock Activated" (Red)	0 VAC	*	0 VAC	0 VAC	*
5U	120 VAC Neutral Leg	High Voltage Common				
6U	Output to UV Lamps Contactor	0 VAC	120 VAC	0 VAC	0 VAC	120 VAC

(1) 120 VAC - Jumper is installed between LD and #26 (No LD/Detergent Flow Switch present)

(2) 120 VAC - LD (Detergent Flow Switch) is installed and Detergent Pump is running and Detergent is present
0 VAC - LD (Detergent Flow Switch) is installed and Detergent Pump is running and Detergent is NOT present

(3) 120 VAC - The only time that terminal 3R will be energized with 120 VAC is if a thermostat located in the RSPC-D unit is activated

WASH CONTROL WIRING NOTES

GPC-1) ALL EXTERNAL CONTROL WIRING SHALL BE 12 GAUGE MINIMUM OR AS PER APPLICABLE CODES.

GPC-2) THE HOLDING COILS WITHIN THE MAGNETIC STARTERS MUST MATCH THE SUPPLY VOLTAGE. MAGNETIC STARTERS ARE SUPPLIED BY OTHERS.

GPC-3) ALL VOLTAGE FREE CONTACTS FOR EXTERNAL SIGNALING ARE RATED FOR 3A @ 240 VAC.

GPC-4) FIRE SWITCH TERMINALS 4 & FS
TERMINALS FOR NORMALLY OPEN FIRE SUPPRESSION MICRO SWITCH AND/OR REMOTE FIRE SWITCH WHICH ACTIVATES THE "EXTERNAL FIRE MODE".

GPC-5) FIRE SYSTEM TERMINALS Q1 & Q2
CONTACTS OPEN WHEN CONTROL GOES INTO INTERNAL OR EXTERNAL FIRE MODES.

GPC-6) LOW DETERGENT TERMINALS LD & 4
DISPLAY WILL FLASH "LOW DETERGENT" WHEN ACTIVATED AND NOT IN WASH MODE.
CUT JUMPER (J1), AND REMOVE ANY JUMPER BETWEEN #4 & LD WHEN INSTALLING FLOW SWITCH.

GPC-7) EXTERNAL FIRE MODE (REMOTE FIRE SWITCH CONTACTS CLOSED) TERMINAL #1 DE-ENERGIZES SHUTTING OFF SUPPLY FAN. TERMINAL #8 ENERGIZES TURNING ON EXHAUST FAN.

GPC-8) INTERNAL FIRE MODE (THERMOSTAT ACTIVATED) TERMINALS #1 AND #8 DE-ENERGIZE, SHUTTING OFF EXHAUST AND SUPPLY FANS.

GPC-9) CUT JUMPER (J2), AND REMOVE ANY JUMPER BETWEEN #15 & GXT WHEN GX2 OR N-97 DAMPER MOTORS ARE CONNECTED TO THIS CONTROL CABINET.

GPC-10) REMOTE LOW DETERGENT TERMINALS 26 & 4
DISPLAY WILL FLASH "LOW DETERGENT" WHEN ACTIVATED AND NOT IN WASH MODE.
REMOVE ANY JUMPER BETWEEN #4 & 26 WHEN INSTALLING FLOW SWITCH.

GPC-11) DISABLE WASH DURING AN INTERNAL OR EXTERNAL FIRE MODE TERMINALS 22 & 21
ADD A JUMPER BETWEEN #22 & #21 WHEN THE WATER SOLENOIDS SHOULD BE DISABLED DURING A FIRE.

GPC-12) REMOTE WASH START PERMISSIONS INPUT TERMINALS 23 & 21
USE A SET OF DRY N/C CONTACTS THAT OPEN WHEN THE WASH MODE CAN START.

GPC-13) REMOTE START FAN INPUT TERMINALS 24 & 21
USE A SET OF DRY N/O CONTACTS THAT CLOSE MOMENTARILY WHEN THE FAN SHOULD START.

GPC-14) REMOTE START WASH INPUT TERMINALS 25 & 21
USE A SET OF DRY N/O CONTACTS THAT CLOSE MOMENTARILY WHEN THE WASH SHOULD START.

GPC-15) REMOTE START FAN & WASH INPUT TERMINALS 27 & 21
USE A SET OF DRY N/O CONTACTS THAT CLOSE AND STAY CLOSED WHILE THE FAN SHOULD BE ON. WHEN THE CONTACTS OPEN THE FAN WILL SHUT OFF AND THE WASH WILL START.

GPC-16) REMOTE DETERGENT PUMP SIGNAL TERMINALS 28 & 5
TERMINAL #28 WILL ONLY HAVE 120V ON IT WHEN THE CONTROL IS IN A ESP WASH ONLY IT WILL NOT COME ON IN A HOOD WASH.

GPC-17) LOCAL DETERGENT PUMP SIGNAL TERMINALS 2 & 5
TERMINAL # 2 WILL ONLY HAVE 120V ON IT WHEN THE CONTROL IS IN A HOOD WASH ONLY IT WILL NOT COME ON IN A ESP WASH.

GPC-18) AUTOSTART TERMINALS "AS" & 21
EXHAUST & SUPPLY FAN WILL START WHEN TERMINAL "AS" RECEIVES A SIGNAL FROM "TST", IF FAN AND WASH ARE NOT ALREADY RUNNING.

THE GAYLORD C-6000-D CONTROL CABINET LIMITED WARRANTY

December 2009

The Gaylord C-6000-D Control Cabinet and component parts furnished with The Gaylord C-6000-D Control Cabinet by the Licensed Gaylord Manufacturer are warrantied by the Licensed Gaylord Manufacturer producing the ventilator to be free from defects of material and workmanship under normal use when installed, operated and serviced in accordance with factory recommendations.

The Licensed Gaylord Manufacturer's obligation under this warranty and any warranties implied by law shall be limited to repairing or replacing at its option any part of said equipment when the Licensed Gaylord Manufacturer's examination shall disclose to its satisfaction to be thus defective, for a period of one (1) year from the date of beneficial use, or eighteen months from date of shipment, whichever occurs first, provided proper and acceptable evidence of such is recorded at the factory. THE LICENSED GAYLORD MANUFACTURER SHALL NOT BE RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM A BREACH OF THIS WARRANTY.

In the United States the labor required to make repairs and replacements under this warranty shall be furnished by Gaylord Industries or the Licensed Gaylord Manufacturer or its authorized representative. Such labor shall only be provided Mondays through Fridays between the hours of 8 a.m. and 4 p.m. Requests for repairs or replacement parts should be made to GAYLORD INDUSTRIES, 10900 SW Avery Street, Tualatin, Oregon 97062 • 503-691-2010 • www.gaylordusa.com

Outside the United States, all replacement parts furnished under this warranty shall be F.O.B. Gaylord Industries, Tualatin, Oregon U.S.A. The owner shall pay the necessary freight delivery charges, and the necessary labor for removal and installation of parts, and any tariffs, duties or taxes.

This warranty does not cover fuses, routine maintenance, malfunctions or improper operation caused by fluctuating electrical power or power surges, or improper exhaust fan operation.

This is the sole warranty with respect to the aforesaid items. NEITHER THE GAYLORD LICENSEE NOR ANY OTHER PARTY MAKES ANY OTHER WARRANTY OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE AFORESAID OBLIGATIONS ARE HEREBY DISCLAIMED AND EXCLUDED FROM THIS AGREEMENT.

SERVICE AND WARRANTY POLICIES

1. NO WARRANTY WORK SHALL BE PERFORMED ON THE PRODUCT WITHOUT A PO FROM GAYLORD INDUSTRIES, IF FINANCIAL REIMBURSEMENT TO BE REQUESTED.
2. NO WARRANTY SHALL BE PROVIDED ON EQUIPMENT THAT HAS BEEN STARTED UP AND IN OPERATION FOR MORE THAN 90 DAYS UNLESS, A PRODUCT MAINTENANCE SCHEDULE HAS BEEN CREATED AND PERFORMED PER THE REQUIREMENTS OF APPLICABLE TECHNICAL MANUALS.
3. ANY, AND ALL, WEARABLE PARTS ARE NOT TO BE CONSIDERED WARRANTY ITEMS, REGARDLESS OF INSTALLATION DATE, UNLESS PREVIOUSLY AUTHORIZED BY THE FACTORY.

WORLDWIDE SALES, MANUFACTURING AND SERVICE

FOR THE NAME AND LOCATION OF THE NEAREST CERTIFIED SERVICE AGENCY, VISIT OUR WEB SITE:

WWW.GAYLORDUSA.COM

OR CONTACT US AT:

GAYLORD INDUSTRIES
10900 S.W. AVERY STREET
TUALATIN, OREGON 97062U.S.A
Phone: 503-691-2010
1-800-547-9696
Fax: 503-692-6048
email: info@gaylordusa.com

LOCAL SERVICE AGENCY

FORM NO. TM-C-6000-D 0510/20120

LITHO IN U.S.A.