

Smart Hood System

Operation and Maintenance Manual

Caddy Splash Screen



Smart Hood

Ver.1.0

Smart Hood is a Registered Trademark of Caddy Corporation

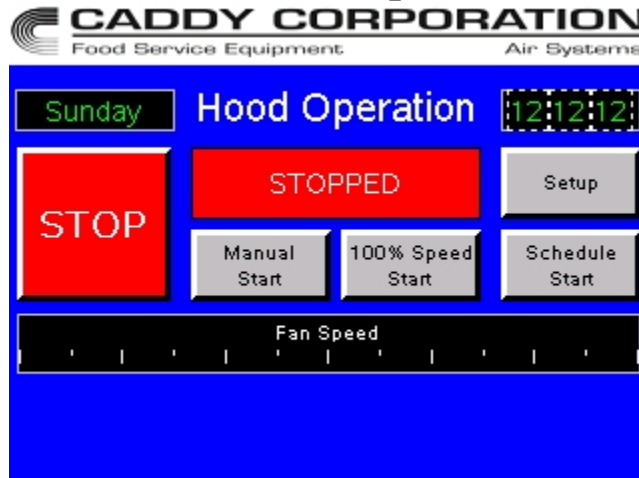
Upon applying initial power the above screen is shown. Press the Enter Smart Hood System to begin.

Setting the Time & Date

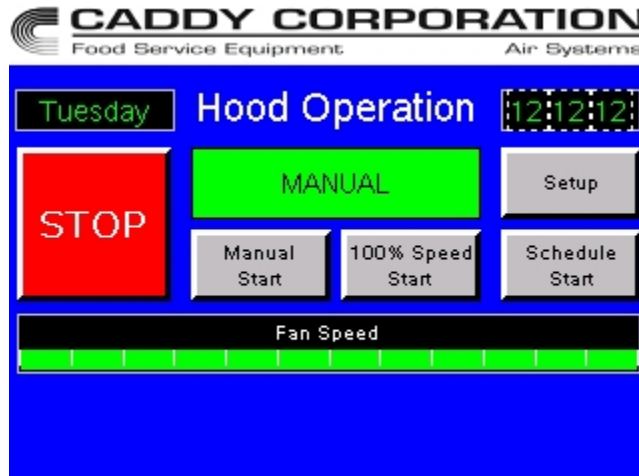


The first time you enter the program, you will be asked to set up the time and date. You can modify the month by pressing inside the month field with the heavy gray border. Continue doing this for each field. The clock must be set using the 24 hour format. For your convenience, we have provided a chart in the lower right hand corner. Once each field is accurate, you must press the “Set Date & Time” button on the right side of the screen to update the settings.

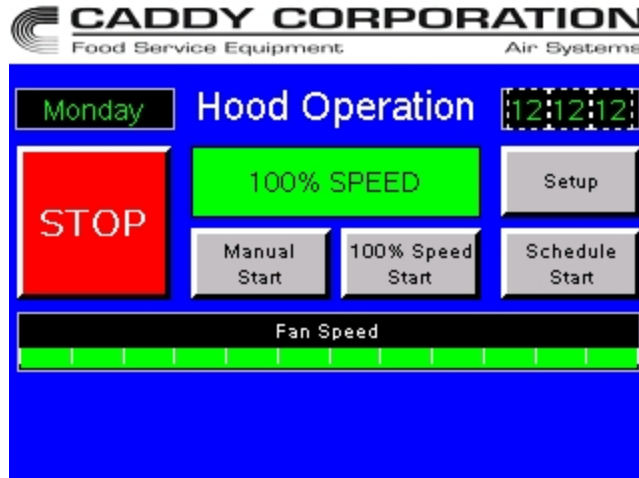
Smart Hood Operation



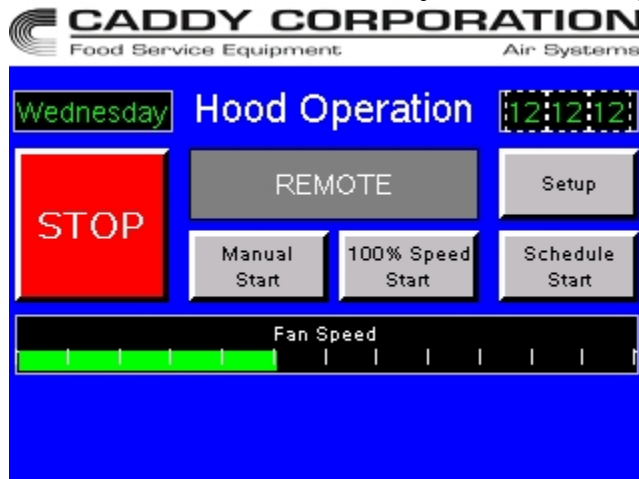
The Smart Hood system is programmed to operate in many different ways. Like any other hood system there is a manual on and a manual off switch. The screen above shows the system “Stopped” awaiting input.



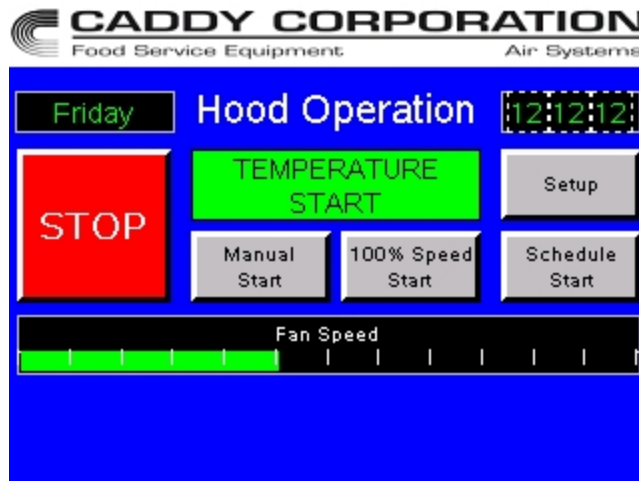
When the “Manual Start” is pressed the fans will turn on. The Smart Hood system will immediately receive information from the temperature sensors to calculate the fan speed. Based on the screen above the bar graph is showing the fans running at 100%. This bar graph will adjust in real time as the Smart Hood system modulates the fans.



The “100% Speed Start” button should be used when there is a large quantity of smoke or steam in the kitchen area that is not getting exhausted. This can happen if the temperature remains low, but large quantities of smoke or steam are created by the cooking equipment. The duration of the 100% Speed mode is preset at 5 minutes. This can be adjusted in the setup screen.



The “Remote” mode is used when the facility would like to take control of the schedule for when the hoods will turn on and off during the day. The terminal block in the VFD cabinet will have two terminals marked “Remote Start”. When 120V is applied to those terminals the Smart Hood system will start the fans. During “Remote Start” mode the fans will still vary their speed based on temperature values.

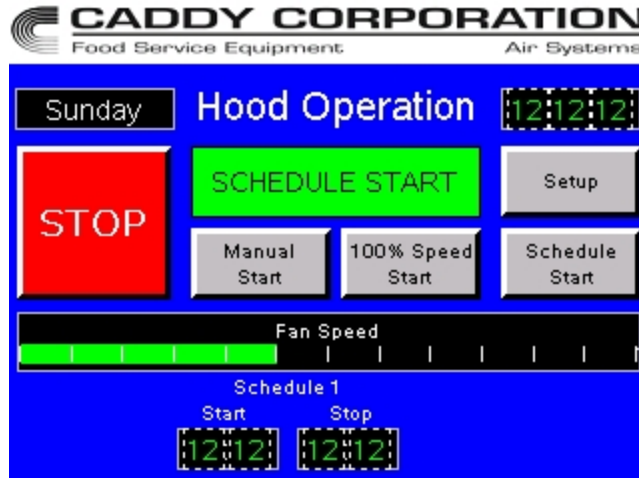


The “Temperature Start” mode is a fail-safe measure to ensure that the cooking equipment is not used when the exhaust fans are off. If cooking is turned on without the fans, the temperature will build up in the hood and once it reaches the temperature set point the fans will turn on. Once the fans are activated they will remain on for a minimum of 5 minutes. If the temperature is still above the temperature set point after the 5-minute period, the fans will remain on.



By code, the fire system and the fans must be interconnected. In most jurisdictions the sequence of operation requires the exhaust fan to remain on or turn on while the supply fan must turn off or remain off. The programming of the Smart Hood system will accomplish this sequence. Once the fire system is reset you will see either one of these screens.



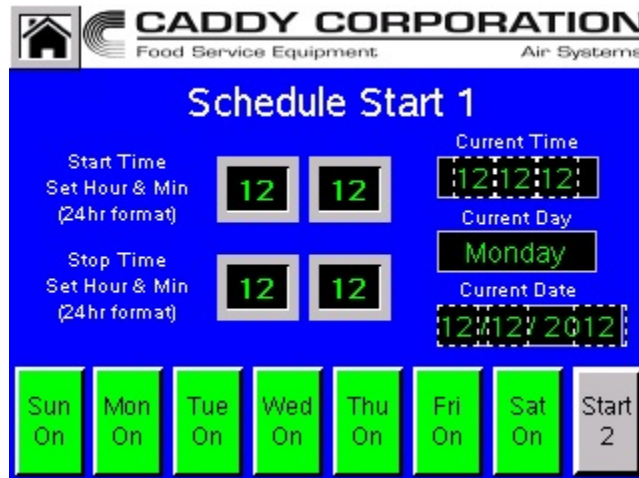


The Smart Hood system can be placed in “Scheduled Start” mode. The system will start and stop based on a User Defined schedule.

Programming Options



Changing the 100% Timer duration: Hit the “Setup” button. Hit the 100% Timer Duration button to bring up the user input box. The default time is 5 minutes and we recommend not exceeding 15 minutes.



Setting the schedule: The days, Sunday-Saturday, are shown at the bottom of the screen. If shown in green, the day is active. If shown in red, the day is inactive. You can toggle between each by tapping the day. Select the hour and minutes field for the start and stop time to change to the desired time. If there is a need to set up two work periods for the day, you can hit “Start 2”. This can be used when there is a distinct break in cooking operation throughout the day.

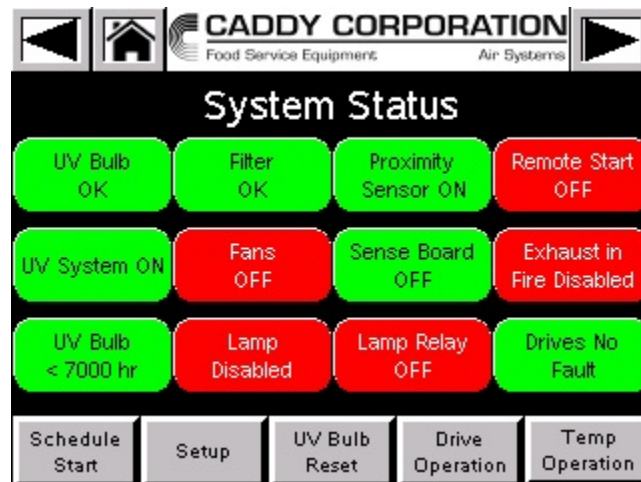
Service Login Information



You can access the login page for service purposes by hitting the Caddy Banner at the top of the screens.

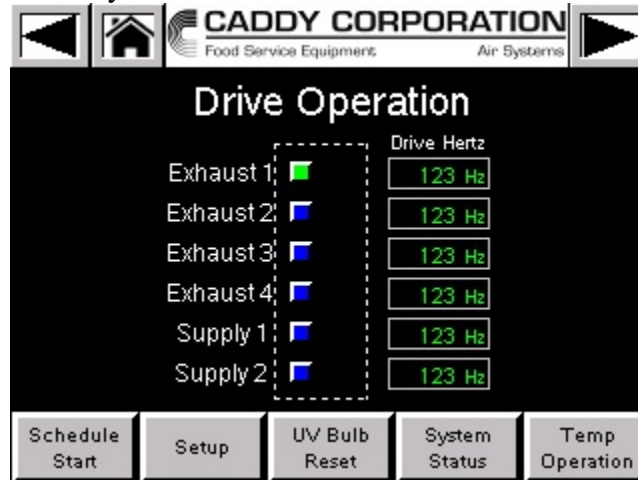
User Name: User3

Password: service



After logging in you are brought to the System Status screen. The Smart Hood standard program has the capability to run two products together. Most of the green/red status symbols relate to our Ultraviolet Hood program.

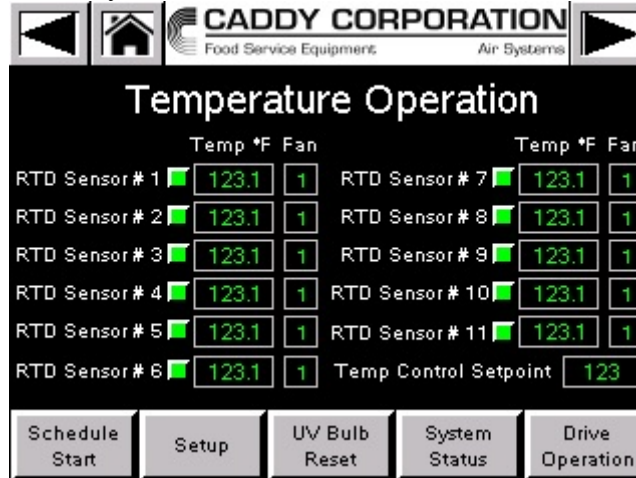
If you press “Drive Operation” you will see the screen below.



This screen will show you the active fans and their speed value. This value will vary between 24 Hz minimum and 60 Hz maximum. The standard Smart Hood system is programmed to control up to 4 exhaust fans and up to 2 supply fans. The colored box next to the numbered fans indicates the status.

- Green = Active
- Blue = Inactive
- Red = Drive Fault

If you press “Temp Operation” you will see the screen below.



Each exhaust duct collar has an RTD Sensor installed in it. Green indicates an active RTD sensor. If you press the box next to Temp Control Setpoint you can change the Autostart activation temperature. It is set at 105 degrees as a default. We recommend keeping it between 90-115 depending on what part of the country you are in. In colder climates we recommend a lower set point.

Product Warranty

Products manufactured by Caddy Corporation are warranted to the original purchaser as follows:

Mechanical components are warranted to be free from defects in material and workmanship under normal use, storage and service for a period of one year from the date of shipment.

Electrical components are warranted to the original purchaser to be free from defects in material and workmanship under normal use, storage and service for a period of ninety days from the date of shipment.

Caddy Corporation shall repair or replace, at its option, without charge any part or product, which our examination discloses to be thus defective during the warranty period.

Under no circumstances will Caddy Corporation honor any repair or back charges by any party regardless of whether such equipment is, within the warranty period, unless the Service Department of Caddy Corporation has authorized such work in writing.

If the equipment is repaired or altered in any way whatsoever by any person without prior written consent by Caddy Corporation, this warranty shall not apply.

Normal wear parts, such as pilot bulbs, gaskets, etc., are not covered by this warranty.

This warranty shall not apply to the defects or damages resulting from accidents, alterations, abuse or misuse of equipment and/or any of its component parts, nor shall it apply to damage of electric components resulting from the connecting the equipment to any power supply other than specified on the nameplate or resulting from unauthorized altering any of the equipment, or from water conditions causing malfunction of electric components and/or control equipment nor traceable to component defects, nor use of materials containing components harmful to materials used in the manufacture of Caddy products. There is no other express warranty.

Any and all implied warranties are excluded to the extent permitted by law. Implied warranties, when included by law, including those merchantability and fitness for a particular purpose, are limited to one year from the date of shipment.

Liability for consequential damages under any and all warranties is excluded. This warranty is the buyer's exclusive remedy.

It is Caddy's policy to constantly improve the design and manufacture of our products. Accordingly, all equipment is subject to change consistent with such policy without prior notice and some items may be discontinued without obligation.