

# Touch Screen Controller (Operon) 7" LCD

## New Controller

- 7" Color TFT-LCD, Touch Screen Panel with SD card.
- Setting the temperature by 0.1°C and entering setting temperature and low/high temperature alarm, set-point security and password security.
- Control section (Touch screen panel) includes data acquisition function, so additional recorder devices are not necessary.
- Data acquisition and backup of collected data using USB are easy, and save them as an excel file.
- Validation Support System presents maximum six temperature and graphs (including control sensor) at the same time and is available for setting save period from per a minute to per an hour recording maximum 3 years. Also, real-time monitoring is available performing the function of validator (OQ, PQ, Paperless Recorder, etc). (Deluxe Pack) (Option for additional sensors), 1-(Basic Pack control 1), 2-(Ice Crystal Pack control1, ice crystal temperature of samples monitoring 1, Abnormal condensation 1), 3-(Deluxe Pack control1, shelf3, abnormal condensation1, outdoor temperature1).
- Real-time graph can be checked on graph monitoring mode, so control state of products can be checked at a glance.
- Energy saving function is set to realize energy saving.
- Visual alarm screen is made, so various alarm and warning messages are presented on Touch Screen Panel in the form of graphics or texts. Information on abnormal high temperature, low temperature or blackout is sent to the user.
- If UPS is chosen, it supplies the power to control section and sends information on blackout and various alarms to the user. Saving data during blackout is available. Automatic return to already saved set value in case of power return after blackout. (When choosing U-System, alarm messages are sent to the mobile).



## Controller & Alarm system – LCD touch screen control panel (option)

- **Ultralow temperature freezer communicates with PC using U-system through RS-485 in the remote area which make monitoring, control and alarm available. One system controls maximum twelve ultralow temperature freezers.**
- **CDMA of U-system makes the user control twelve ultralow temperature freezers, monitor the current state of the device, receive alarm message(text message) and backup accumulated alarms with the mobile by wireless realizing safer sample management.**



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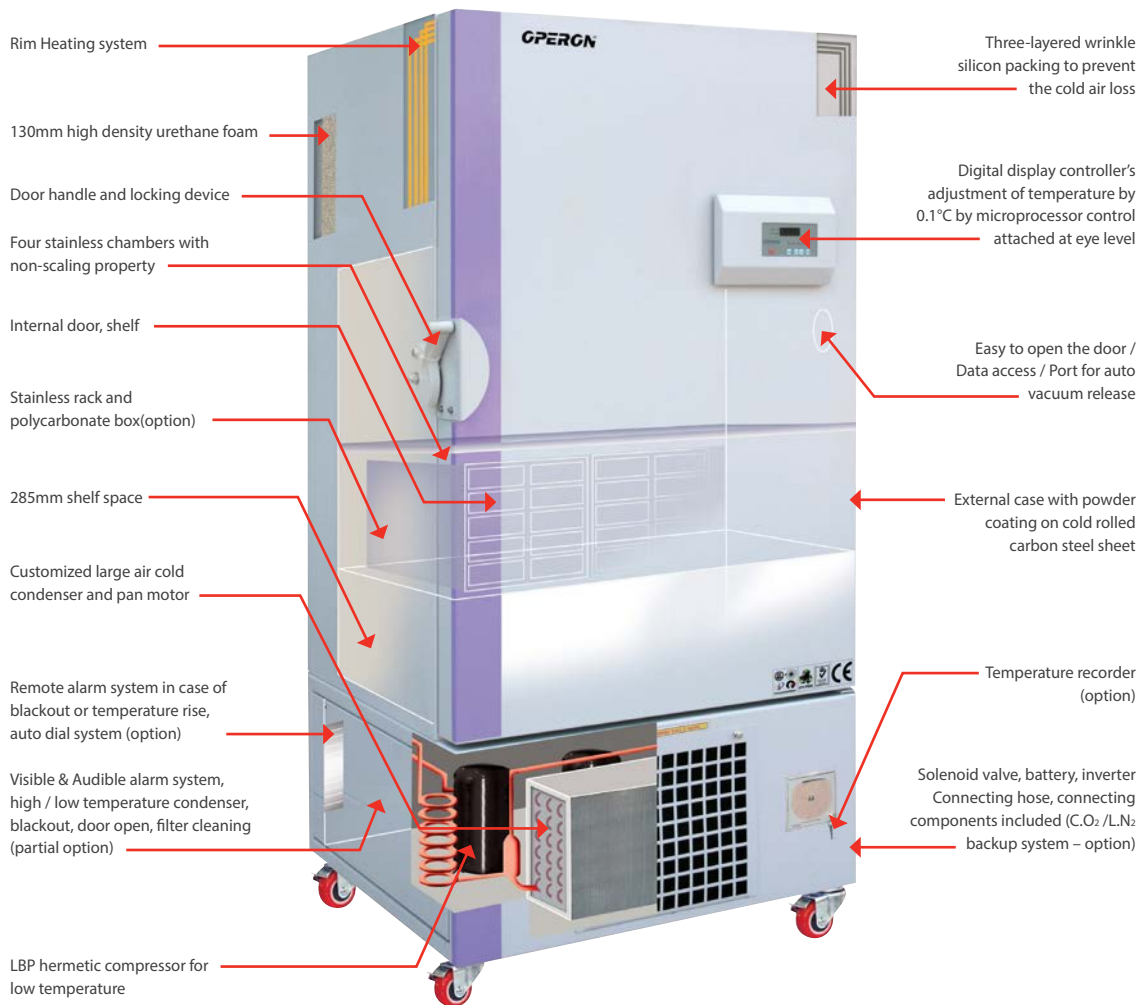
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# SPECIFICATIONS

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## LED controller (standard)

- **Data Lock function: Set-point security password.**
- **The temperature is set by 0.1°C, and setting temperature and low/high temperature alarm can be entered. Control circuit chooses safety circuit when operated again after blackout to protect the device in case of auto power return.**
- **When choosing remote alarm system, alarm messages about abnormal temperature and blackout are sent to maximum four users.**
- **RS-232 PC communications program is available for monitoring and setting temperature such as accumulated time/temperature recording/graph presentation.**
- **Text description and LED flickering while sending auditory alarm are presented about abnormal temperature and abnormal condensation.**



START/STOP	Start/stop
MODE	Save data or Move to the next stage
	High temperature alarm/Low temperature alarm/Remote alarm
	LN2.CO2 back up alarm
	Data lock, set point security
	Setting password etc
SHIFT	Move the digit
INC	Increase of numbers
ALARM ON/OFF	Alarm ON/OFF



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