



**GELB** SERIES  
- 86°C Dual System



# Schnee

ALPINUM PRAZISION COLD CHAIN



2 Individual inner doors can be opened independently to minimize frost buildup inside the chamber  
Unique door seal design for the minimum loss of cold temperature during a door opening  
Stainless Steel handle to ensure the door open conveniently even in the case of frost



Excellent Doors Seals  
5 gasket seal, 4 seals for out door



7 Inches touch Screen  
All data display on the screen, easy to observe

Write Board for short records which would pass to next user

Green Handle, easy to use with 2 locks

Special V.I.P (Vacuum Insulation Panel) design with extra insulation factor cuts down heat loss to cabinet by 25%



Big condenser for better heat dissipation

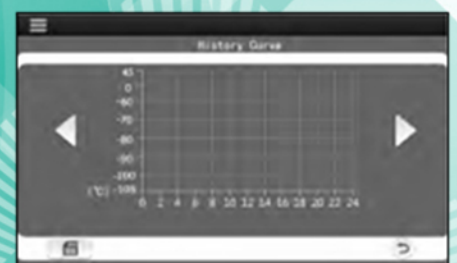
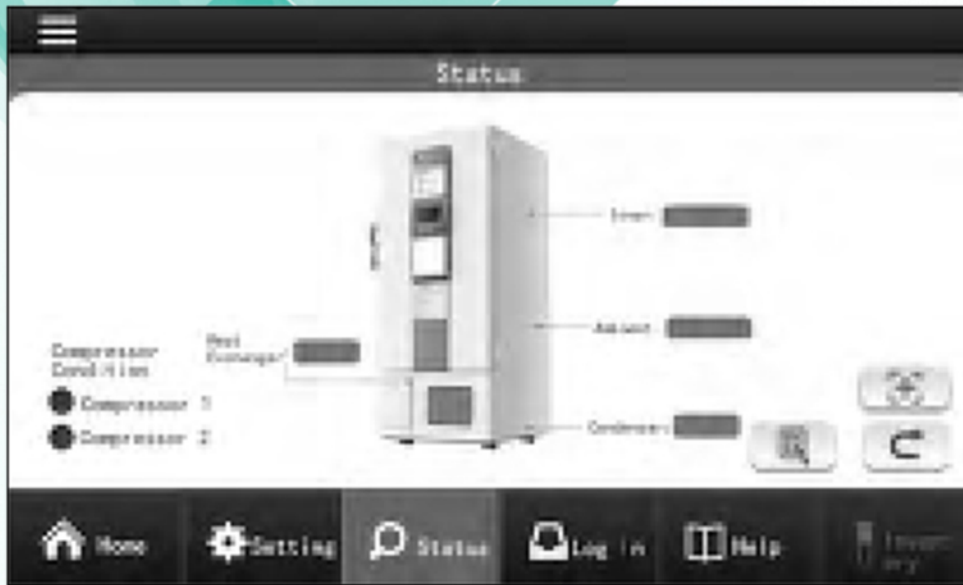


Changeable sensor box or you could put another sensor from here to monitor or record temperature



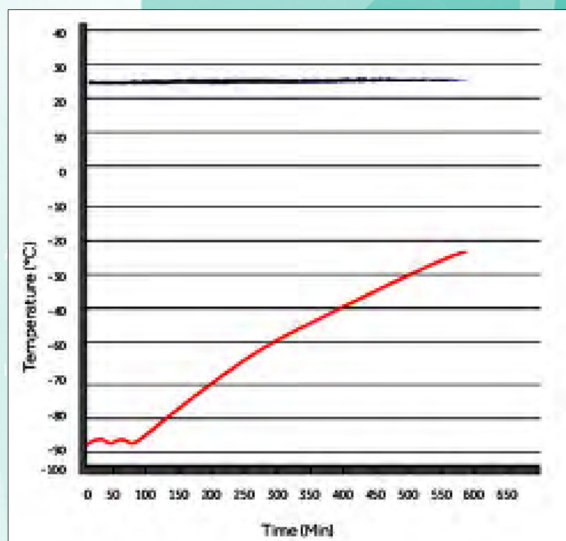
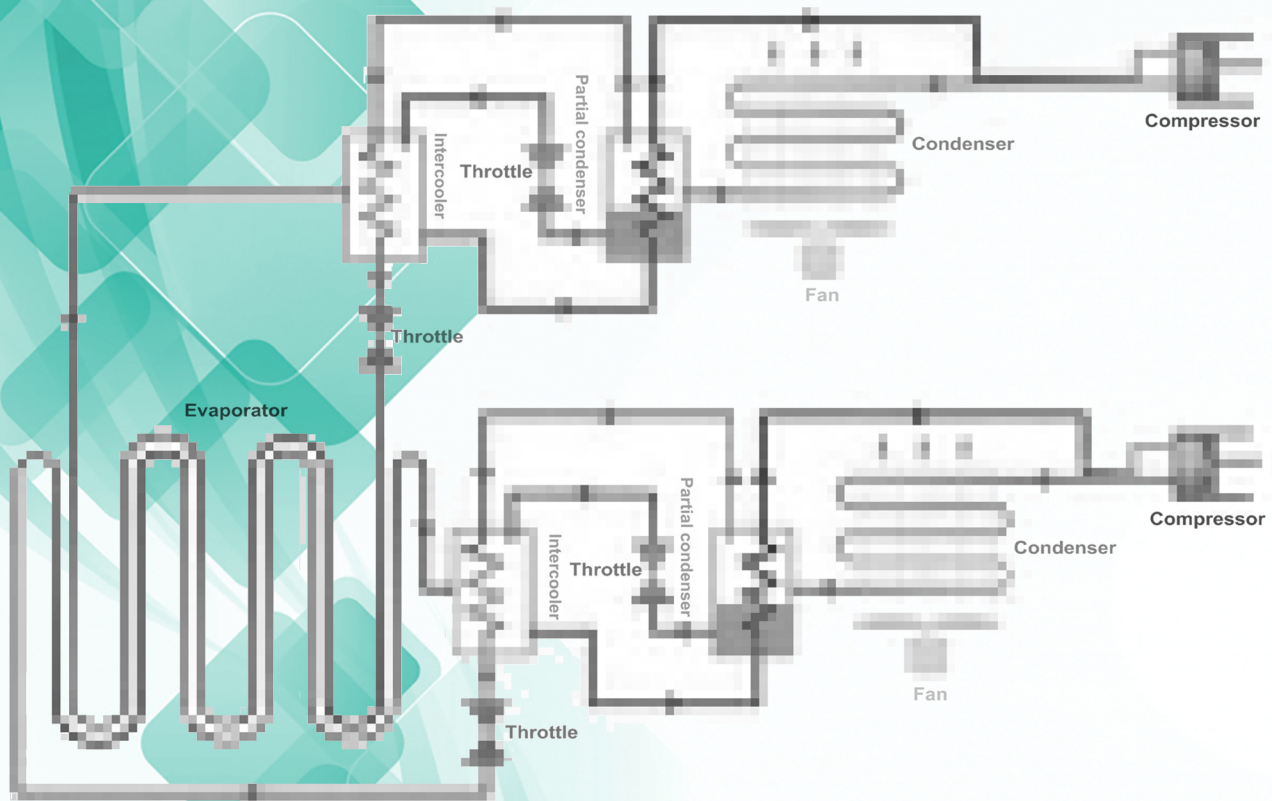
# -86°C GELB DUAL SYSTEM

## 7 Inches Touch Screen & Functions

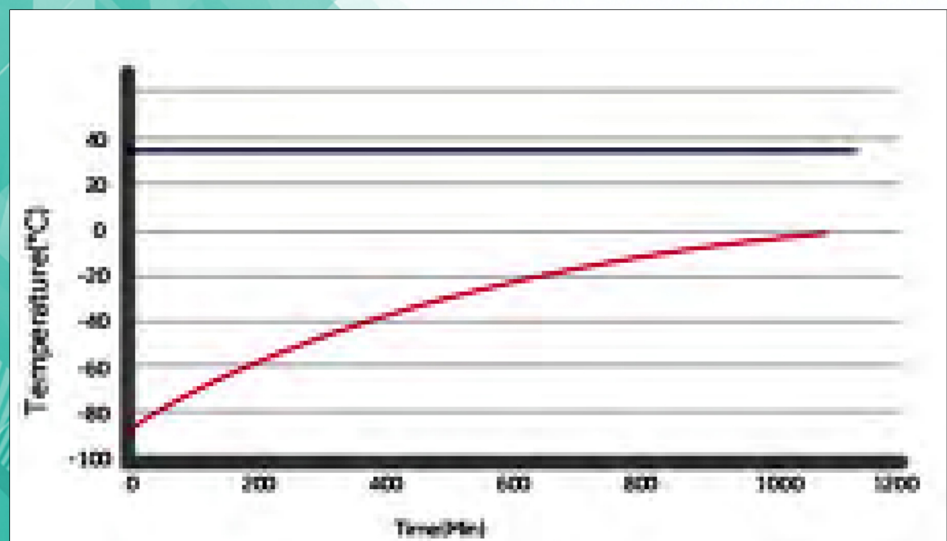


| Alarm                    | Alarm Triggering Condition  |
|--------------------------|---|
| High Temperature         | Temperature reaches the warm alarm limit  |
| Low Temperature          | Temperature reaches the low alarm limit   |
| Power Failure            | Equipment loses power   |
| Door Ajar                | Door open period exceeds 5 mins   |
| Probe Failure            | <ol style="list-style-type: none"> <li>1. Main cabinet temperature control sensor fails</li> <li>2. Condenser sensor fails</li> <li>3. Ambient sensor fails</li> <li>4. Heat exchanger sensor fails</li> <li>5. Heat exchanger temperature fails</li> </ol> |
| Low Battery              | Battery capacity runs low or battery switch is not turned on  |
| Hot Condenser            | <ol style="list-style-type: none"> <li>1. Condensers filter element is clogged</li> <li>2. Ambient temperature is too high</li> </ol>   |
| High Ambient Temperature | Ambient temperature exceeds 32°C  |
| Other alarms             | <ol style="list-style-type: none"> <li>1. Thermostat failure</li> <li>2. Abnormal voltage alarm</li> </ol>  |

# Dual System Circulation System



Pull-up test at 25°C ambient



Pull-up test at 32°C ambient

# -86°C Gelb Dual System



## FILED PROVEN RELIABILITY

- Unique insulated inner door design for four separate storage compartments to minimize frost buildup inside the chamber.
- Specialized control system design for a well-balanced operation of dual refrigeration system.
- Positive filed proven reliability record.



## SAFETY

- Malfunction alarms including high and low temperature, power failure, sensor error, clean-filter, and extremely high ambient, abnormal voltage, thermostat failure, low battery, condenser clean, door ajar.
- Capable of producing two types of alarm outputs, audible buzzer and visible flashing light.
- Door open feature standard and USB port for temperature data downloading standard on upright models.
- Remote alarm contacts.



## INSTALLATION AND APPLICATION

- Wide range operating voltage system from 187V to 242V designed to allow units installed in areas with poor voltage condition
- Suitable for 10°C to 32°C ambient temperature



## ENERGY SAVING

- Unique door seal design for the minimum loss of cold temperature during a door opening.
- High performance VIP insulation panels to minimize cabinet heat gain and to improve temperature stability.



## KEY DESIGN FEATURES

- Microprocessor-controlled system designed for controlled range of -40°C to -86°C for cabinet space with 1°C increment
- Settable high temperature and low temperature alarms.
- Automatic clean-filter alarm and sensor error alert.
- Adjustable storage shelf height
- Optional temperature recorder, storage racks and storage box
- Double security with two independent cooling system, when one system breakdown, the other system could maintain the inner temperature at -70°C.



# **GELB Series**



# -86°C Gelb Cascade System



## FILED PROVEN RELIABILITY

- Unique insulated inner door design for four separate storage compartments to minimize frost buildup inside the chamber.
- Specialized control system design for a well-balanced operation of cascade refrigeration system.
- Positive filed proven reliability record.



## ENERGY SAVING

- Unique door seal design for the minimum loss of cold temperature during a door opening.
- High performance VIP insulation panels to minimize cabinet heat gain and to improve temperature stability.
- HC Refrigerant with better efficiency & less energy cost, good for environment.



## SAFETY

- Malfunction alarms including high and low temperature, power failure, sensor error, clean-filter, and extremely high ambient, abnormal voltage, thermostat failure, low battery, condenser clean, door ajar.
- Capable of producing two types of alarm outputs, audible buzzer and visible flashing light.
- Door open feature standard and USB port for temperature data downloading standard on upright models.
- Remote alarm contacts.



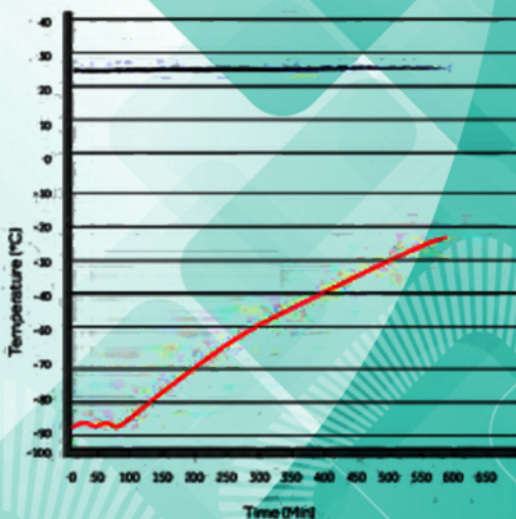
## KEY DESIGN FEATURES

- Microprocessor-controlled system designed for controlled range of -40°C to -86°C for cabinet space with 1°C increment
- Settable high temperature and low temperature alarms.
- Automatic clean-filter alarm and sensor error alert.
- Adjustable storage shelf height
- Optional temperature recorder, storage racks and storage box

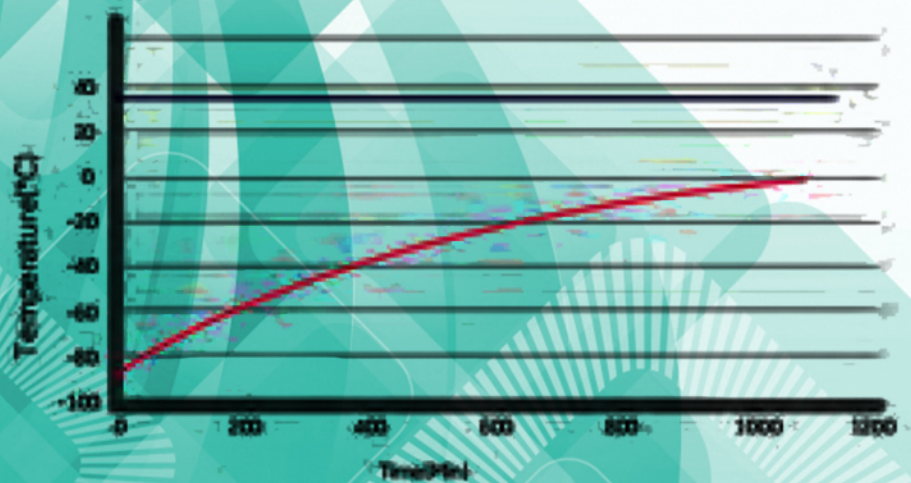


## INSTALLATION AND APPLICATION

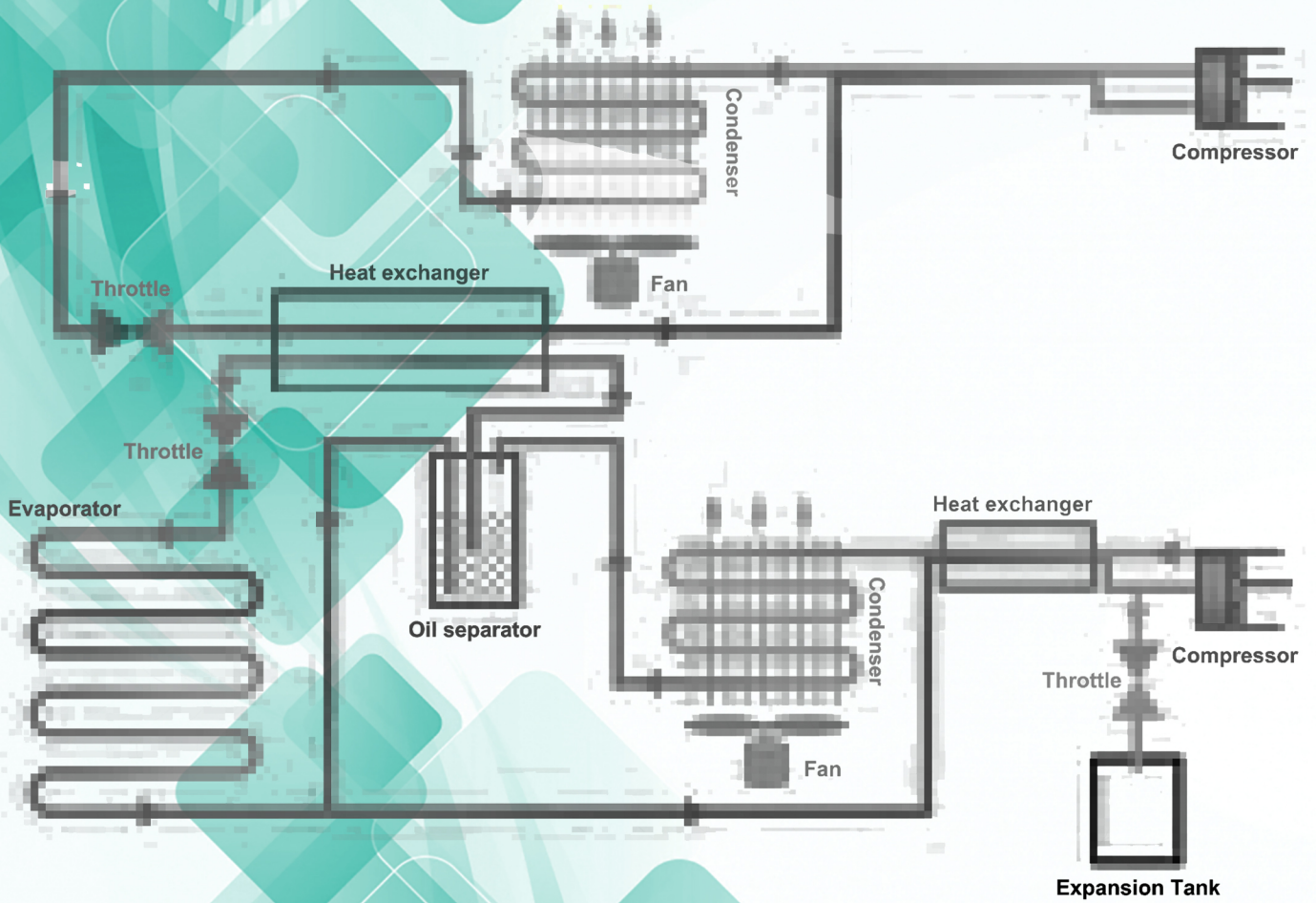
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Pull-up test at 25°C ambient



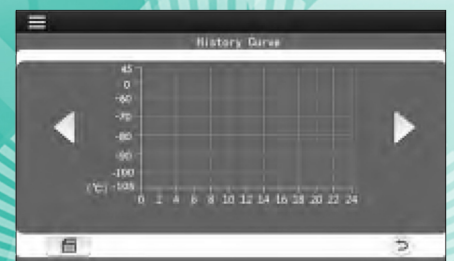
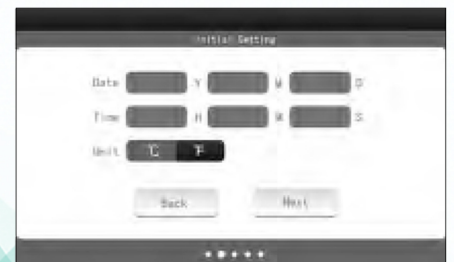
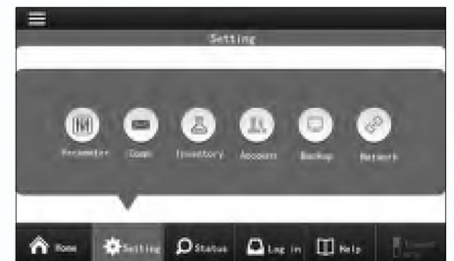
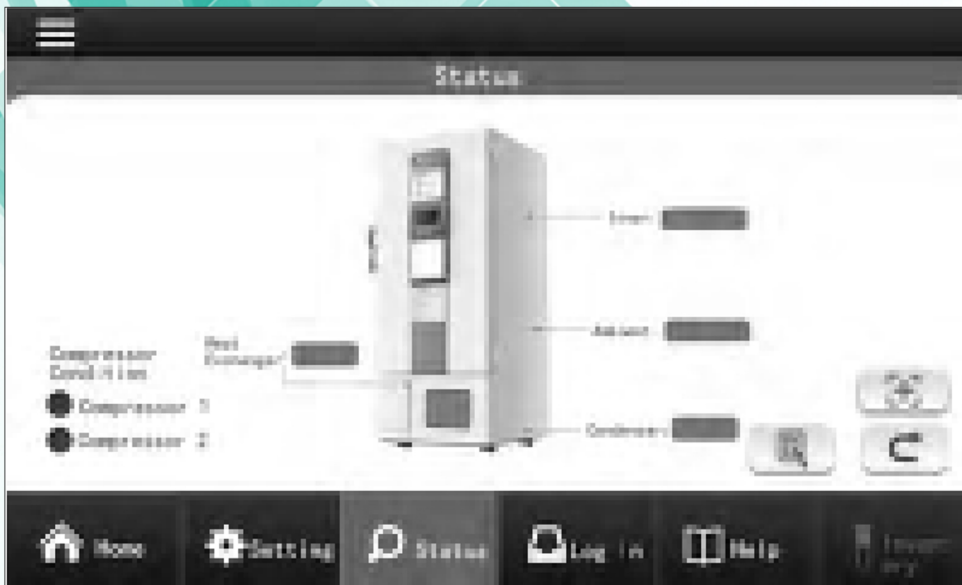
Pull-up test at 32°C ambient





# -86°C Gelb Cascade System

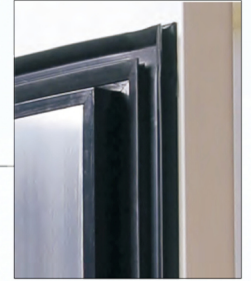
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