








NA1630 Milk Jar Controller Instruction

Main Function and Control Logic

The controller is a milk jar special controller, and it controls 2 compressors and a Agitator. It contains 5 external alarm (Agitator, compressor 1, compressor 2, pressure 1, pressure 2), and you can turn on 1 compressor or 2 compressors at the same time. It also contains a forcible refrigerating switch and a manual beating switch.

- 1、 **Temperature controlling:** It begins to refrigerate when the temperature in the milk jar is higher than the “temperature upper limit”, and stops refrigerating when the temperature is below “temperature lower limit”.
- 2、 **Compressor:** When refrigerating, the controller first turns on the Agitator, and turns on the compressor after 30 seconds. Three states can be set: one compressor on, the other compressor on or two compressors on. When two compressors are running synchronously, the system will ensure that the two compressors don't start up at the same time, but the one starts up first, and the other start up after 1 minute. In addition, the compressor has the function of delay protection, the controller will start again after stopping for above 3 minutes (The delay time can be set).
- 3、 **Agitator:** The Agitator is always running when refrigerating, and the Agitator will not stop until reaching the “beating time”. When not in the refrigerating state, the Agitator will run according to the “beating alternation” and the “beating time”.
- 4、 **Alarm:** Alarm signal is a contact which is always closed, the alarm occurs when the contact open. When the Agitator is in the alarm state, the controller stops refrigerating and beating; when “Compressor” and “Pressure” is in the alarm state, the controller stops the corresponding compressor and does not effect the other compressor. After the alarm signal is withdrawn, the alarm state is still locked for some time, you can press any key to resume.
- 5、 **Forcible refrigerating switch:** When the temperature is between “temperature upper limit” and “temperature lower limit”, the system may be or not be refrigerating, press the forcible key can start refrigerating forcibly.
- 6、 **Manual beating switch:** In the non-refrigerating state, pressing the key “Manual beating” can turn on or off the Agitator. After the Agitator was turned on or off manually, the Agitator will still start or stop periodically according to the “beating alternation” and “beating time” which have been set. In refrigerating state, the Agitator is always running, and the key of manual beating switch can do nothing.

Technique Index

-  **Temperature display range:** -50~125°C, (step 0.1°C)
-  **Temperature setting range:** -45~120°C
-  **Power supply:** 12V AC (Use the transformer with the controller, primary voltage, 220V±10% or 380V±10%)
-  **Operation Environment:** temperature -10°C~45°C, humidity≤85%.
-  **Relay contact capability:** 1A/380VAC (Pure resistive load)
-  **Temperature sensor:** NTC R25=5kΩ, B (25/50)=3470K
-  **Executive standard:** Q/320585 XYK 01-2004 (NA1630-CTAX)

Operating Guide

1. Basic Setting

Press the “sel” key, and you can set four parameters: “Temperature upper limit”, “Temperature lower limit”, “Beating alternation”, “Beating time”, “Compressor select”, and then use the “▲” and “▼” to change the setting value (“▲” adds 0.1°C, “▼” minuses 0.1°C, press and hold them over 0.5 seconds can add or minus rapidly).

When setting “Compressor select”, “1” means turning on compressor 1, “2” means turning on compressor 2, “12” means turning on compressor 1 and compressor 2.

2. Alarm Processing

The controller makes the alarm indicator light flash or display the alarm code on the nixietube when alarm occurs, and first you can look for error causation according to these indications, after removing the error, some alarms can resume automatically, but some are locked, and you can press any key to eliminate. Please refer to the table below:

Alarm Name	Alarm Code	Causation	Resume Way
Agitator alarm	Indicator light	Agitator alarm signal open	Press any key
Compressor 1 alarm	Indicator light	Compressor 1 alarm signal open	Press any key
Compressor 2 alarm	Indicator light	Compressor 2 alarm signal open	Press any key
Pressure 1 alarm	Indicator light	Pressure 1 alarm signal open	Press any key

