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**NEWEX INTERNATIONAL CO., LTD**

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# Electric Control



Temperature Controller  
Application

Electric Control Box



## Touch controller EK-3010/3021/3030

### Technical parameters

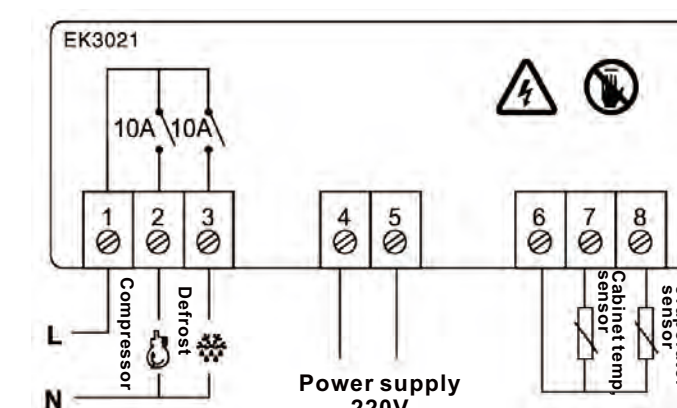
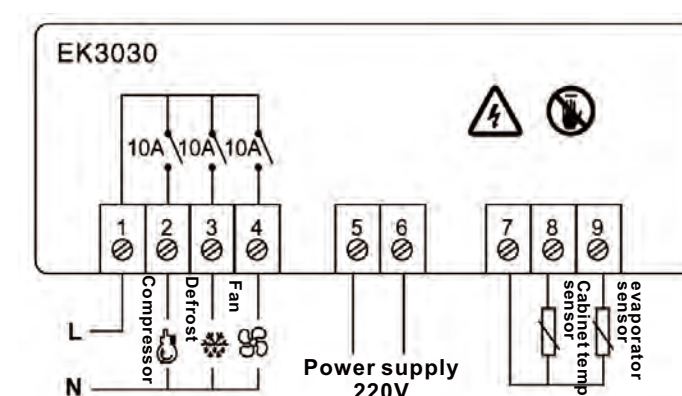
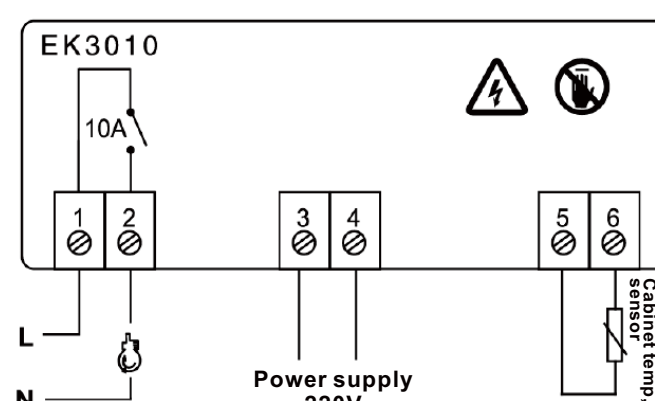
- Temperature measuring range:  $-40^{\circ}\text{C} \sim 99^{\circ}\text{C}$
- Temperature control range:  $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- Temperature measuring accuracy:  $\pm 1^{\circ}\text{C} \pm 0.5$  digit ( $-30^{\circ}\text{C} \sim 50^{\circ}\text{C}$ );  $\pm 2^{\circ}\text{C} \pm 0.5$  digit (others)
- Display resolution:  $0.1^{\circ}\text{C}/1^{\circ}\text{C}$
- Operating voltage:  $220\text{VAC} \pm 10\%$ , 50/60Hz
- Operating ambient temperature:  $-10^{\circ}\text{C} \sim 55^{\circ}\text{C}$
- Relative humidity: 10%~90%(non-condensin)

### Specifications

- Product size: 78.5(L)\*34.5(H)\*82(D)mm
- Mounting size: 71(L)\*29(H)mm

### Table of EK series functions

	Features	EK-3010	EK-3021	EK-3030
Output	Refrigeration	●	●	●
	Defrost		●	●
	Fan			●
	Alarm	Buzzer	Buzzer	Buzzer
Input	Sensor	1 piece	2 piece	2 piece



## General controller MTC-5060/5080



MTC-5060



Refrigeration



Manual defrost



2NTC



Temperature  
Calibration



MTC-5080



### Application

Applicable in cold storage control, provides refrigerating output,defrosting and other functions; possess temperature measurements, display, control, and over-limit temperature alarms and sensor faultyfunctions and etcetera

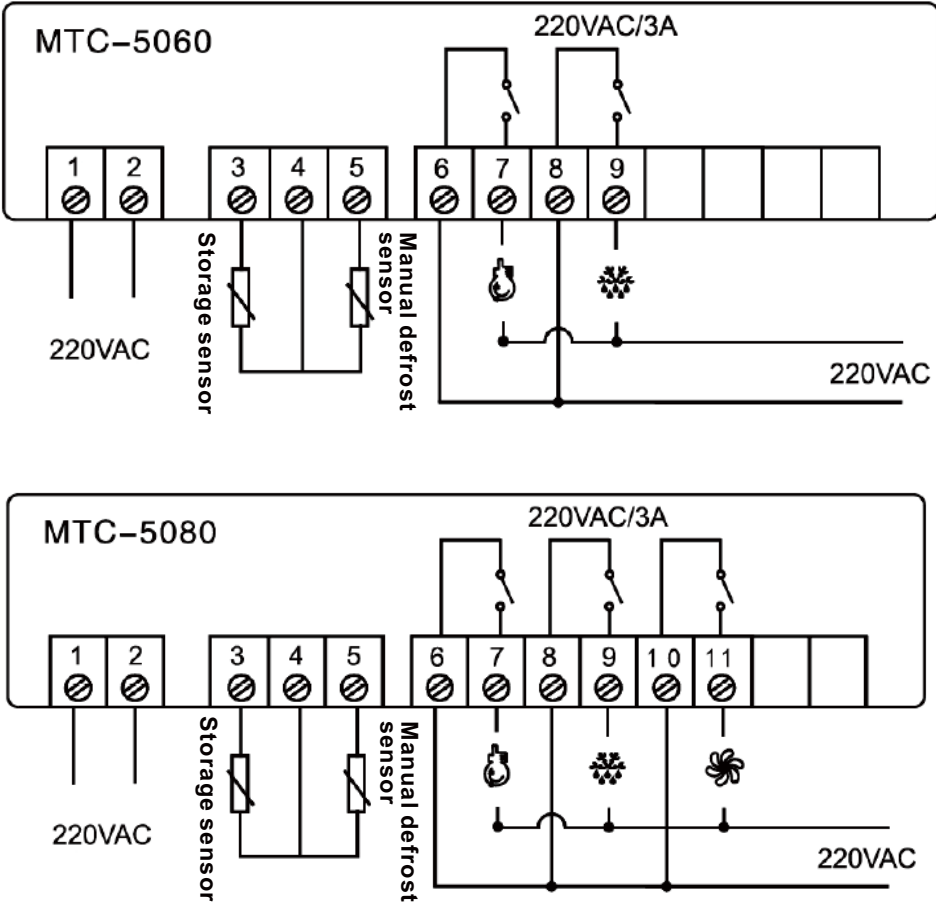
### Specifications:

- Product size:100×51×82.5mm
- Mounting size: 92x44 mm

### Technical parameterse

- Power supply: 220VAC±10%, 50/60HZe
- Temperature measurement range: -50℃-50℃
- Temperature controlling range: -50℃-50℃
- Resolution: 1℃
- Accuracy:±1℃
- Compressor output connect point capacity: 8A/220VAC
- sensor type: exported NTC sensor, lengths 2 meter NTC 2m
- Case/shell materials: grey ABS anti-flaming plastic case ABS

### Wiring diagram



### Table of MTC series functions

	Functions	MTC-5060	MTC-5080
out-put	Cooling	●	●
	Manual defrost	●	●
	Fan		●
in-put	Sensor	2	2

## Standard Electric Control Cabinet ECB-5060S



### Application

- Refrigeration industry, medium and low temperature and instantfrozen warehouses

### Functions

- Features MTC- 5060 temperature controller with double sensors to measure temperature and realize separate control of the compressor and defroster.
- Compressor start delay is configurable.
- Self-developed motor protector.
- Current display: compressor operates in duty cycle mode in case of a faulty sensor.
- Easy to operate, stable and reliable performance

### Specifications:

- Product dimensions: 340\*420\*135 mm(<20P)
- Standard Electric Control

## Standard Electric Control Cabinet ECB-5080S



### Application

- Suitable for refrigeration industry, medium and low temperature refrigeration and quick freezing storage.

### Functions

- A refined and concise controller MTC- 5060; dual temperature sensors; it can realize individual control over the compressor,defroster and fan
- Compressor startup delay is adjustable;
- The self-developed motor product;
- Electric current display: proportionally compressor startup orshutdown throughout sensor fault;
- Manual/automatic rotary switch control;
- Convenient operations, stable and reliable performance.

## Electric Control Cabinet Plastic Shell ECB-3010/3021/3030

ECB-3010



ECB-3021



ECB-3030



### Application

- Small and medium sized medium and low temperature cold rooms

### Functions

- Features CP-6000 current protector with inverse time lag protection function
- Meaning: The bigger the average current exceeds the protection current set-point, the shorter the protection actuation time. Inverse time lag protection can truly ensure the safety of refrigeration units.
- Features: The greater the overload current of the compressor, the shorter the protection actuation time.
- Value: When the compressor is operating, the protection time is automatically adjusted according to the magnitude of the overload current, thus achieving current overload protection functions.
- Features phase loss protection, phase sequence protection and three-phase unbalance protection.
- Features EK thermostat with 6 large touch buttons and no menu operation required, so that the end user can shake off cumbersome parameter settings
- ECB-3010: refrigeration only
- ECB-3021: refrigeration and defrost
- ECB-3030: refrigeration, defrost and fan

### Specifications:

- Product dimensions: 250\*350\*150 mm(<20P)