

T SERIES TEMPERATUR CONTROLS

■ Introduction

T series temperature controls are used to control the temperature of icehouse with solenoid valves. It turns the temperature signal into pressure signal on accordion pipe, and transports it to temperature switch. When bulb temperature is higher (or lower) than setting one, temperature switches automatically control open and close of solenoid valves by signal, which makes sure to provide the liquid for evaporator normally and maintains the setting temperature of icehouse.

Type	Range °C	Differential °C		Setting °C			Bulb size mm		condition °C
		Min.	Max.	On	Off		L(TH)	D(A(M))	
T30	-30 ~ 0	4		-10	-15		80	10	Ts > Tb
T15	-15 ~ 15	3		0	-5				
T40	0 ~ 40	3	10	10	15				
T90	40 ~ 90	3		55	60		129	12	Ts ≤ Tb
T120	70 ~ 120	3		85	90				

Notes: Ts -- Itself temperature, Tb -- Bulb temperature.

■ Installation

1, As for T15, T30 and T70, the ambient temperature must be 5°C higher than the bulb situation.

2, Please strictly comply with the following rule in installing to prevent capillary fracture.

1) The body of temperature control should be installed on the place where amplitude is less than 1.5mm.

2) The capillary must be fixed on the plate by strap if the temperature controls are straightly installed on the plate of evaporator. The rest capillary must be circuted a Φ60mm ring and fixed on the plate.

3, As for T15, T30 and T70, the capillary is not permitted to parallel get in touch with the inlet pipe through wall. (Graph 1)

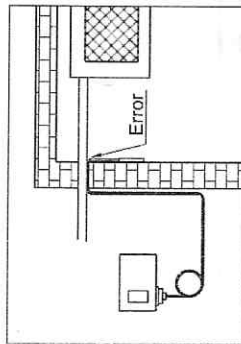
4, There are 4-M4 screw holes on the reverse side. It could be installed on the right place by 4-M4 x 6 screw, Φ4 washer and Φ4 spring-washer. (Graph 2)

■ Electrical Ratings

Voltage V		A.C.	
Amps. A		110	220
Full Load Amps.		24	16
Locked Rotor Amps		144	96

Ambient temperature -20~70°C

The cable entry can be used for Φ15 mm



Graph 1

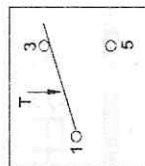
■ Commissioning

1, There are 3 contacts, one break back contact 1, two moving contacts 3 and 5. Please refer to the right connection instruction according to the temperature and working condition. Connect 1-5 (Graph 3). It is used for protecting exhaust temperature of compressor. When the temperature rises to the setting one, the contact turns off. Reverse, the contact turns on.

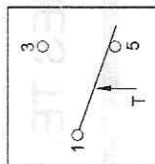
Connect 1--3 (Graph 4). It is used for protecting low temperature of ice house and refrigerator. When the temperature drops to the setting one, the contact turns off. Reverse, the contact turns on.

2, Plate indicates the disconnection temperature. The needle indicates factory setting one that customers could adjust according to requirement. Please use screwdriver to pull the adjustment plate at the low pressure air box to adjust the spring force. Adjust plate at clockwise rotation, the disconnection data decreases, inversely, the disconnection data increases.

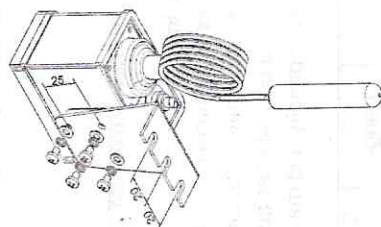
3, Differential temperature that beside the main graduation indicates the connection temperature. Differential needle indicates minimum factory setting connection data. Adjust screw at clockwise rotation, the connection data increases, inversely, the connection data decreases.



Graph 4



Graph 3



Graph 2



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