***SECR03** SERIES (REVO)*

REFRIGERATED CABINET CONTROLLER SECR03 (REVO)

FEATURES

- COMPLETE CABINET CONTROLLER WITH INTEGRATED CONTROL ON EEV, CABINET TEMPERATURE, DEFROST, EVAPORATING FAN AND ADDITIONNAL FUNCTIONS
- INTERCOM FOR MULTIPLE CONTROLLERS SHARED SIGNAL
- DUAL TEMPERATURE MODE FOR MULTIPLE OPERATING CONDITIONS
- ENERGY EFFICIENT, ACHIEVING THE MOST EFFICIENT USE OF THE EVAPORATOR

GENERAL SPECIFICATIONS

- Applicable for various refrigerants including propane and CO_2.
- Operating temperature: -30°C ~ 55°C
- Storage temperature: -30°C ~ 55°C
- Relative humidity: ≤95% RH
- Certification: CE Declaration according to EMC
- Installation method: DIN35 rail
- Compatible with Sanhua DPF and LPF-T expansion valves

ELECTRICAL PARAMETERS

- Power supply: 24 Vac +10%/-15%, 50/60 Hz 24 Vdc+10%/-15%, Class II
- Requested transformer: >15 W (24 Vdc) / >25 VA (24 Vac)
- Connection: Pluggable terminal (M3) Torque 0.5 N.m, current ≤ 3 A (220 V)

  Min / Max wire diameter 0.34 ~ 2.5 mm^2 XHP terminal (EEV and sensors)
- Communication: RS485, Remote Display, InterCom

REFRIGERATED CABINET CONTROLLER

MODEL DESIGNATION LEGEND

NO. 1 2 3	Model Designation Legend
SECR03-R2	SANHUA Electronic Controller
SEC**R03**-R2	Revo series refrigerated cabinet controller
SECR03-**R2**	R2 is the controller version

ORDERING METHOD

All the models are compatible with the main refrigerants on the market:
R404A, R410A, R134a, R407C, R507, R1234ze, R1234yf, R290, R450A, R513A, R448A, R449A, R452A, R744 (CO_2), R744a (N_20), R32, R245fa, R23, R407A, R407F, R124, R717, R407H, R454C, R455A, R454B, R452B, R600A, R600, R454A.

Model	Part Number	Details
SECR03-R2	10680004902	Cabinet controller
MD01-01	10680004802	Remote display
YCQB02H01 (HC)	10185001502	0-20 bar, 0.5-3.5 V, 1/4” soldering, 2 m cable (XHP)
YCQB02H18 (HC)	10185015402	0-20 bar, 0.5-3.5 V, 1/4” soldering, 4.9 m cable (XHP)
YCQB02L12 (HFC)	10185015502	0-20 bar, 0.5-3.5 V, Thread: SAE-1/4" 7/16-20 UNF-2B, 2 m cable (XHP)
YCQB02L28 (HFC)	10185015602	0-20 bar, 0.5-3.5 V, Thread: SAE-1/4" 7/16-20UNF-2B, 4.9 m cable (XHP)
YCQB09L02 (CO2)	10185044102	0-90 bar, 0.5-3.5 V, G 1/4, 2 m cable (XHP)
YCQB06L01 (CO2)	10185067202	0-60 bar, 0.5-3.5 V, Flare 7/16-20 UNF-2B (Packard) - XHP/Packard cable needed
YCQB02-013251	20185108201	2 m cable length XHP/Packard for YCQB & YCQC pressure sensors
YCQB02-013252	20185108101	5 m cable length XHP/Packard for YCQB & YCQC pressure sensors
YCQB02-013253	20185108001	9 m cable length XHP/Packard for YCQB & YCQC pressure sensors
NTC2A1	10665000102	Temperature Sensor (NTC 5 KΩ), 2 m cable (XHP)
NTC5A1	10665000202	Temperature Sensor (NTC 5 KΩ), 5 m cable (XHP)
NTC9A1	10665000402	Temperature Sensor (NTC 5 KΩ), 9 m cable (XHP)
LPF-T	LPF-T Data sheet	LPF-T Electronic Expansion Valve

Note: The temperature & pressure sensors should be ordered separately.
Other pressures transmitters are available on the YCQ datasheet.

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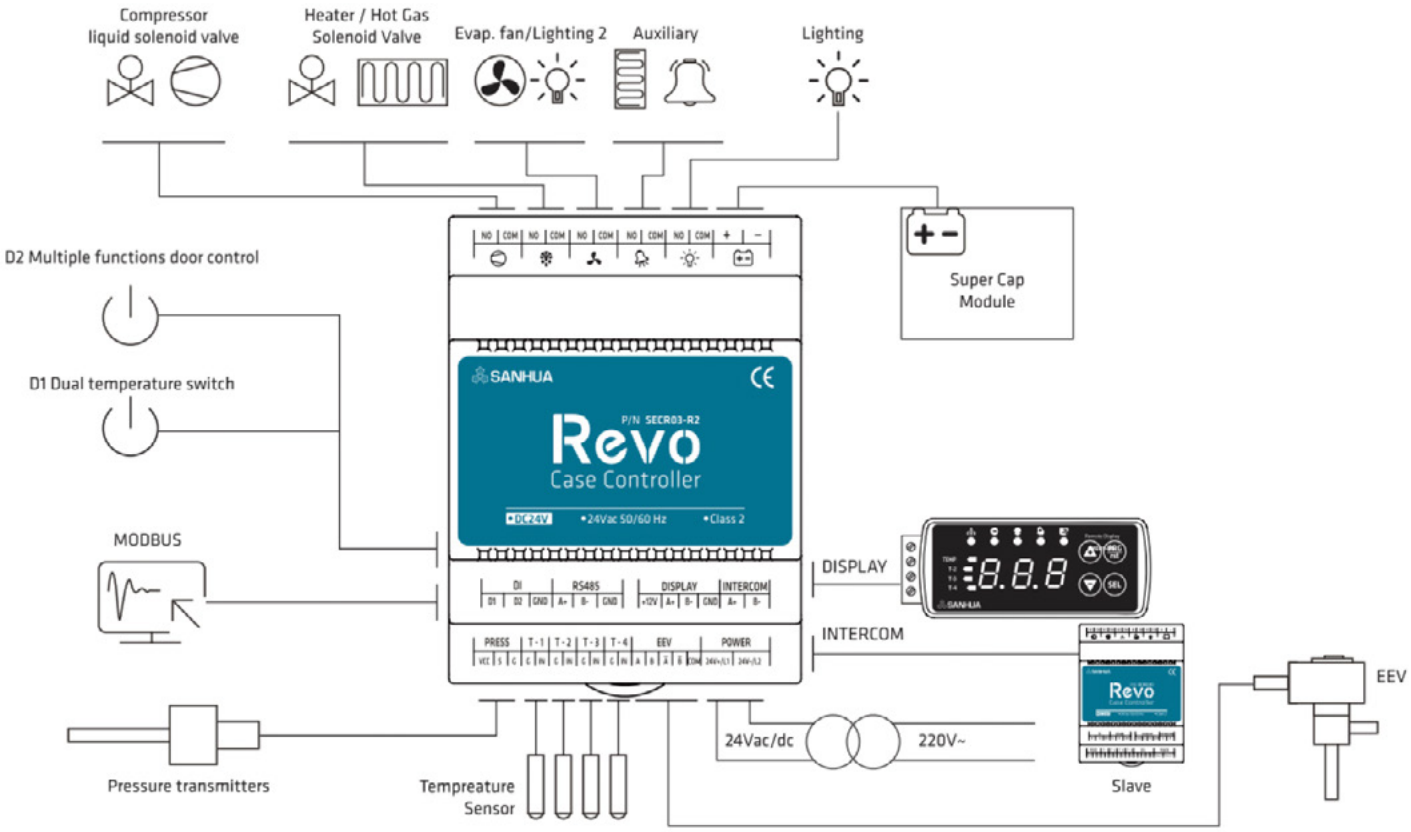
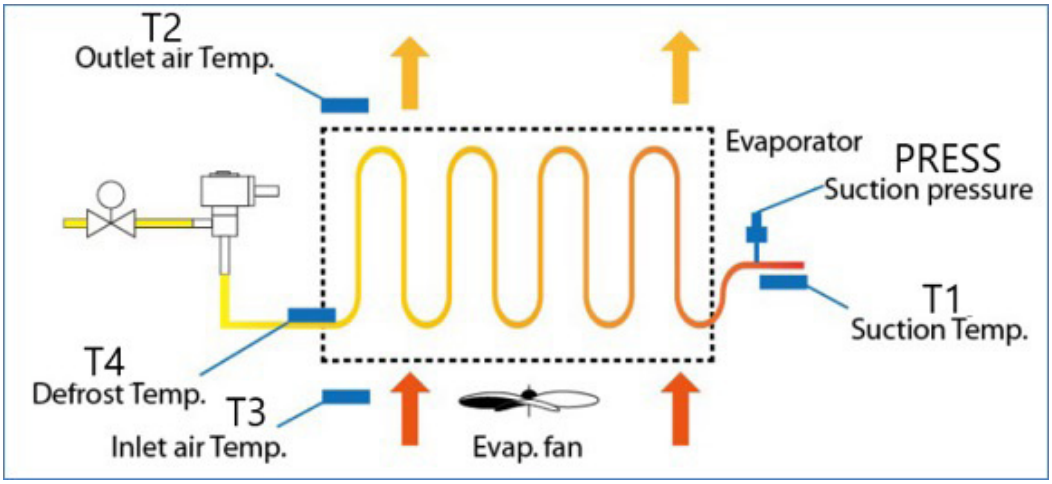
SENSOR INFORMATION

Items	Description	
Temperature sensor	Sensor type	NTC 5 KΩ
	Cable specification	2 / 5 or 9 m × 0.5 mm²
	Protection level	IP 67
	Accuracy	±0.3°C (at 25°C)
	Operating temperature range	-55°C ~ 85°C
Pressure Transmitter	Power Supply	YCQB: (5±0.25) VDC
	Output signal	YCQB: (0.5 ~ 3.5) VDC
	Pressure range accuracy	±2.0% F.S. (-30°C/+85°C)
	Protection level	IP 67
	Connection	Soldering: 1/4" or Thread: 1/4"SAE 7/16-20 UNF

REFRIGERATED CABINET CONTROLLER

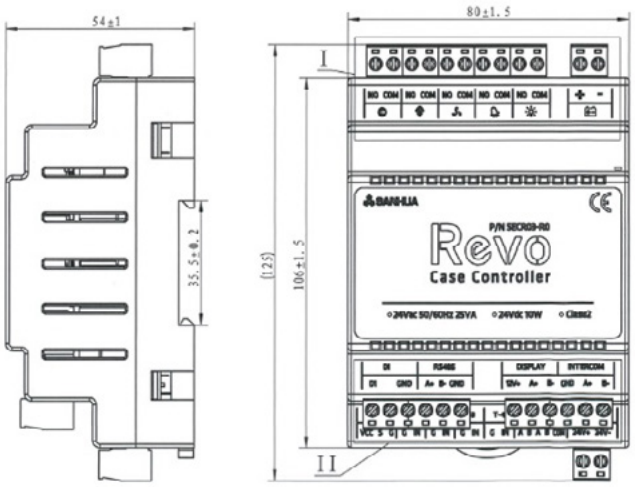
INSTALLATION

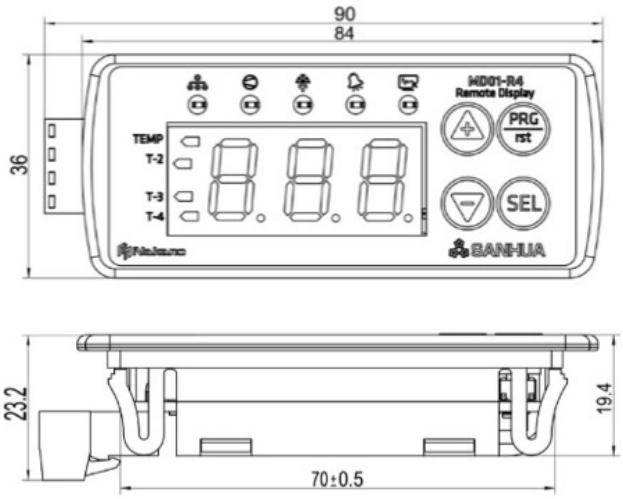




REFRIGERATED CABINET CONTROLLER

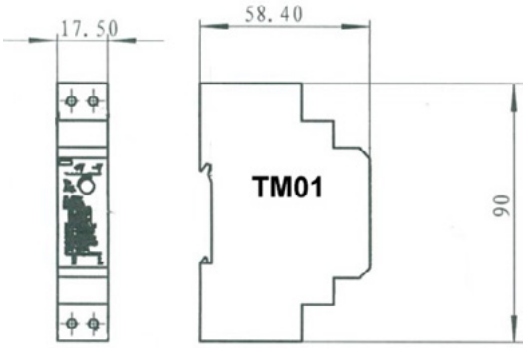
DIMENSIONS





ACCESSORIES

Transformer

Item	Description		
Transformer	Supply Voltage	100 ~ 240 VAC	
	Output Voltage	From 21.6 to 29 V, Set at 24 VDC	
	Output current	0.63 A	
	Operating Temperature	-30 ~ +70°C	
	Mounting	DIN 35 mm	

Model	Part number	Output current
TM01	20680008002	0.63 A

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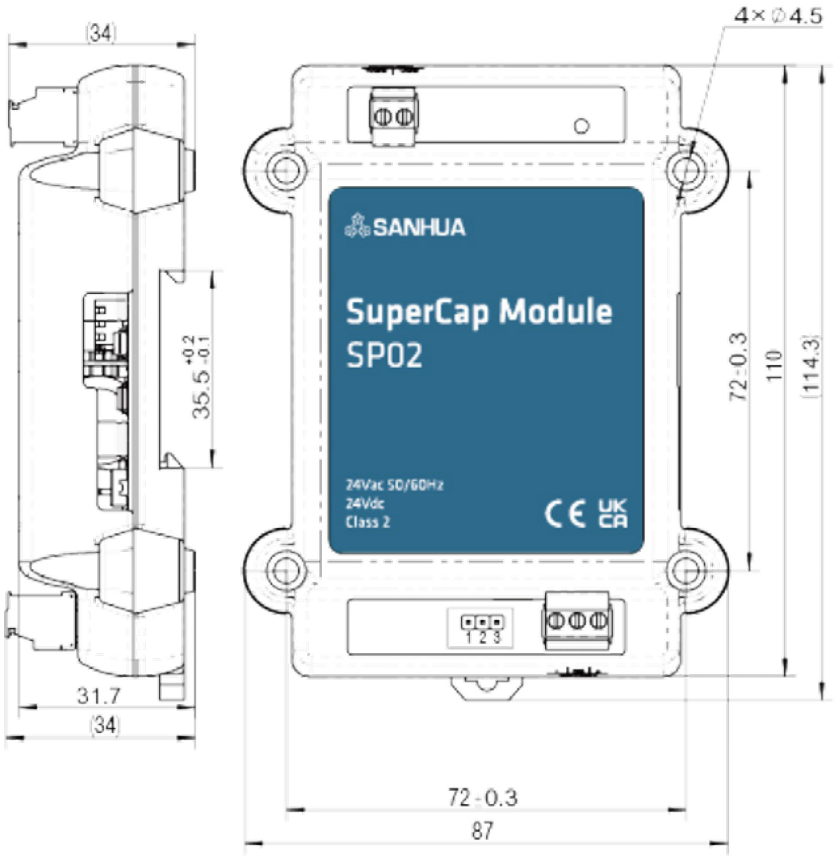
ULTRACAPACITOR

Item	Description
Model	SP02
Dimension	72 (W) mm x 110 (H) mm x 31.7 (D) mm
Voltage input	24 Vac, +10%/-15%, 50/60 HZ 24 Vdc, +10%/-15%
Voltage output	22.5~23.5 V at Charging (24Vdc input), 14~16 V at discharging
Discharging time	≥25 s (Load current 400 mA)
Rated power	Max 8 W (24 Vdc) or 26 VA (24 Vac)
Operation	-30~+55°C, ≤95% RH (Non-condensing)
Storage	30~+55°C, ≤95% RH (Non-condensing)



Model	Part number
SP02	10680004702