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Electronic controllers solution
for refrigeration cabinets

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Sanhua REVO cabinet controller

REVO is a range of controller for Refrigerated cabinet capable to manage a complete system including most advanced features on the market such as Electronic Expansion valve, variable speed drive in addition to the core features of cabinets which is to maintain fresh food for long time.

One REVO for every application

Product family	Items	Revo SE	Revo SE	Revo SE	Revo	Revo+	Revo Pulse
Sanhua Model	Basic Information	SECR06-S1	SECR06-S2	SECR06-S3	SECR03-R2	SECR04-R0	SECR05-P1
Description		Thermostat for cooler	Thermostat for freezer	Inverter system[3)]	Standard	Inverter system[3)]	Standard PWM
Typical Application		Remote/Plug-in	Remote/Plug-in	Remote/Semi Plug-in	Remote	Remote/Semi Plug-in	Remote
Power Supply		110~220 Vac	110~220 Vac	110~220 Vac	AC/DC 24V	AC/DC 24V	110~220 Vac
Cooling[1)]	Output Signal	✓	✓	✓	✓	✓	✓
EEV		✗	✗	✗	Step Motor	Step Motor	PWM
Evaporative fan		✗	✓	✓	✓	✓	✓
Defrosting		✗	✓	✓	✓	✓	✓
Real Time Clock		✗	✓	✓	✓	✓	✓
Non-condensing/Alarm		✗	✗	✗	✓	✓	✓
Lighting		✗	✓	✓	✓	✓	✓
Digital Input (DI)	Input Signal	✗	✓	✓	2x	1x	2x
Outlet Air Temp.		✓	✓	✓	✓	✓	✓
Auxiliary Air Temp.[2)]		✗	✓	✓	✓	✓	✓
Suction Temp.		✗	✗	✗	✓	✓	✓
Defrosting Temp.		✗	✓	✓	✓	✓	✓
TTL/PWM	Communication	✗	✗	✓	✗	✗	✗
Modbus		✗	✓	✓	✓	✓	✓

1) For remote systems, it mainly controls the liquid line solenoid valve. For fixed-speed plug-in systems, it mainly controls the compressor. For inverter (semi-) Plug-in systems, the start and stop of the compressor are controlled by the inverter, therefore it can also be configured to control the condenser fan or the liquid line solenoid valve (in case of water-cooled condenser).

2) For remote systems, it can be configured to control the inlet air temperature. For Plug-in systems, it can be configured to control the discharge temperature or the condensing temperature as high-pressure control and protection.

3) SECR04 is mainly used for rotary inverter compressors with an external inverter, and control is achieved through Modbus communication with the inverter. SECR06-S3 is mainly used for hermetic piston inverter compressor systems, where the compressor usually has an integrated inverter drive and communicates with the controller through TTL or PWM.

Focused on what matters most!

By selecting the right model for your application, you can avoid paying for unnecessary features. REVO ensures right value for your money.

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Product focus

REVO se

Application: simple thermostat with natural or electrical defrost using thermostatic expansion valve.
Version for compressor speed control PWM or TTL
Compatible with Sanhua RFGC

REVO

Application: Standard evaporator controller with Electronic Expansion Valve control.
Compatible with Sanhua LPF-T and DPF Electronic Expansion Valve.

REVO+

Application: Standard evaporator controller with Electronic Expansion Valve and inverter control.
Compatible with Sanhua SD2 inverter and LPF-T - DPF Electronic Expansion Valve.

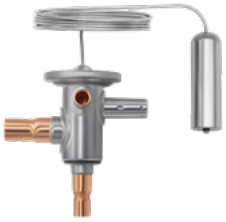
REVO Pulse

Application: Standard evaporator controller with pulse expansion valve control.
Compatible with Sanhua PEV Pulse Expansion Valve.

Complementary products

Sanhua Witness monitoring system

- Up to 64 devices connected
- User friendly interface with remote access
- Wireless data transmission with 4G network
- Control, Monitoring and Optimization of the system operation
- Local data storage: 14 days or *up to 2 years (*optional)
- Available in Europe in 2025



Sanhua RFGC/RFKH Thermostatic expansion valve

- Design refrigerant: R290
- Design pressure: 35 bar
- Cooling capacity: 0.49–14.3 kW (for R290)
- Ambient temperature min./max.: -35/+55°C
- Medium temperature TS min./max.: -40°C / +70°C
- Fully stainless steel body and bi-metal connections

Sanhua LPF-T EEV

- Design pressure: 90 bar and MOPD up to 50 bar
- Refrigerant temperature range: -40°C–70°C
- Snap-on coil connection for easier installation
- Uni-polar step motor with total 500 steps for accuracy control
- Connection sizes: 1/4 "–1/2 " and 6–12 mm

Sanhua PEV Pulse Expansion Valves

- Design for Refrigerant: R744, HFCF, HFC and HFO
- Design pressure: 90 bar
- Connection sizes: 3/8 "/ 1/2 " and 10 mm /12 mm
- Min. 50 million life cycles thanks to soft-landing seat design
- Tight like a solenoid valve
- Spare Part Kits available

Sanhua SD2 Variable Speed Drive

- Design refrigerant: HFC, HFO, HC and R744
- Dedicated for BLDC compressors
- Pollution degree III design (A3 refrigerants)
- Self-diagnostic system with boot loader function
- Cooling: Horizontal or vertical heatsink, flat plate
- Tested with: Highly, SIAM, Panasonic and other...
- TUV CE certification

	Sanhua Witness monitoring system	Sanhua RFGC/RFKH Thermostatic expansion valve	Sanhua LPF-T EEV	Sanhua PEV Pulse Expansion Valves	Sanhua SD2 Variable Speed Drive
REVO se	✓	✓			
REVO	✓		✓		
REVO+	✓		✓		✓
REVO Pulse	✓			✓	

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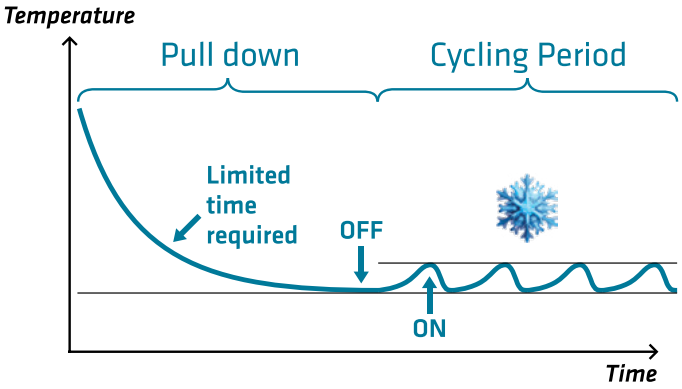
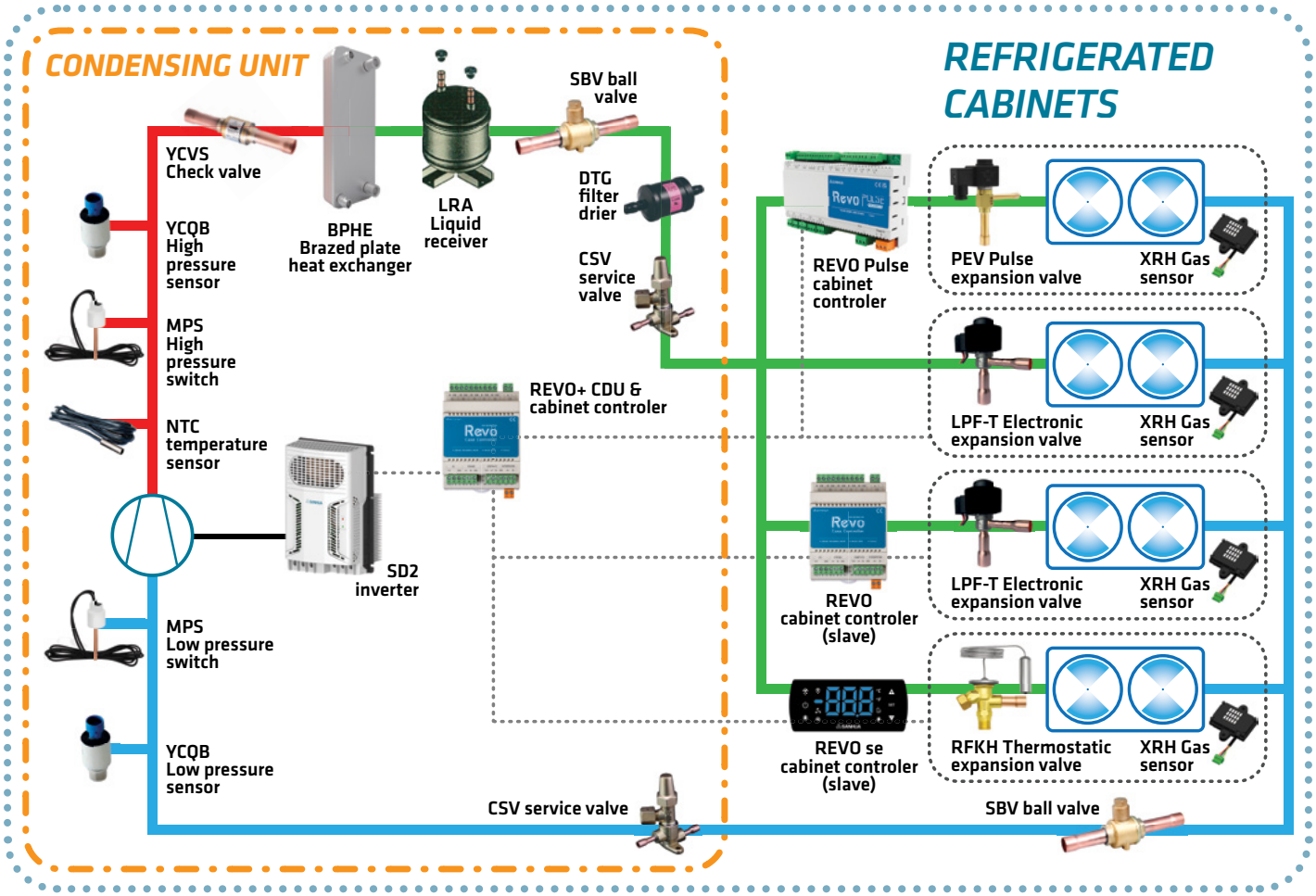
Cost-effictive and efficient!

With accurate control REVO solutions provide fast temperature pull down and precise temperature control. The solution is ready for efficient systems operating with higher evaporating temperature such as flooded evaporator.



Sanhua's REVOlution for supermarket



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