

## Stepper or Pulse You Choose, We Deliver !



### PEV Pulse Width Modulation EEV

- Design refrigerant: HFC, HFO and R744
- Design pressure: 90 bar
- Cooling capacity: 0.4 to 15 kW (for R744)
- Min.OPD: 0 bar (direct operated)
- Max.OPD: up to 35 bar
- Serviceable body
- Replaceable orifice and strainer
- Connections: [IN=3/8" x OUT=1/2"]
- Coils: 230VAC 50/60Hz and 24VAC 50/60 Hz



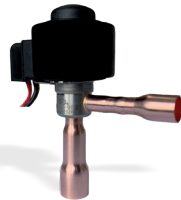
### LPF-T Stepper EEV

- Design refrigerant: R744
- Design pressure: 90 bar
- 9 Sizes: Cooling capacity: 6 kW to 27 kW
- Uni-polar stepper motor - 500 steps (full stroke)
- Port size from 0.3 to 2.4mm: Max.OPD: 50 bar
- Port size from 3.0 to 3.2mm: Max.OPD: 35 bar
- High internal tightness (<1ml/min)
- Built-in strainer



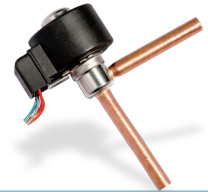
### LPF Stepper EEV

- Design refrigerant: HFC, HFO, HC
- Design pressure: 42 bar
- 7 Sizes: Cooling capacity: 3 to 28 kW (for R290)
- Uni-polar stepper motor - 500 steps (full stroke)
- High internal tightness (<1ml/min)
- Built-in strainer



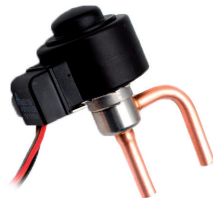
### DPF-R Stepper EEV

- Design refrigerant: R744
- Design pressure: 140 bar
- 3 Sizes: Cooling capacity: 8 to 41 kW
- Uni-polar stepper motor - 500 steps (full stroke)
- Max.OPD: 100 bar



### DPF Stepper EEV

- Design refrigerant: HFC, HFO, HC
- Design pressure: 49 bar
- 13 Sizes: Cooling capacity: 2 to 121 kW (for R410A)
- Uni-polar stepper motor - 500 steps (full stroke)
- Bidirectional flow



### DBF Stepper EEV

- Design refrigerant: HFC, HFO, HC
- Design pressure: 49 bar
- 4 Sizes: Cooling capacity: 66 to 124 kW (for R410A)
- Uni-polar stepper motor - 500 steps (full stroke)
- Bidirectional flow



### VPF Stepper EEV

- Design refrigerant: HFC, HFO, HC
- VPF 12.5 to 150
  - Design pressure: 50 bar / Max.OPD: 39 bar
- VPF 250 to (400)
  - Design pressure: 45/(34) bar / Max.OPD: 39/(21) bar
- 9 Sizes: Cooling capacity: 54 kW to 1495 kW (for R134a)
- Bi-polar stepper motor
- Compatible with SANHUA driver VSD1002(P)

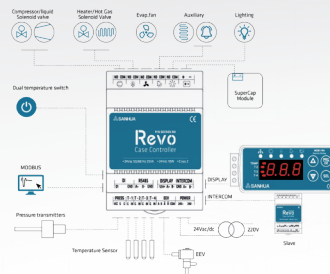


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# EEV Controls for Remote Cabinets

## SEC REVO EEV Case Controller

- Complete cabinet controller with integrated control of: EEV, cabinet temperatures, defrost, fan and other functions
- Compatible with Sanhua LPF and DPF valves
- Settable parameters thanks to the MD01-R4 remote display
- InterCom for multiple controllers shared signal
- Dual Temp mode for multiple operating conditions
- 26 refrigerants including HC and R744
- Operating temperature from -30 to 55°C
- Certification: CE declaration according to EMC directive.
- Installation method: DIN35 rail
- Power supply: 24Vac +10%/-15%, 50/60Hz and 24Vdc+10%/-15%, Class II
- Communication: RS485, Remote display, InterCom



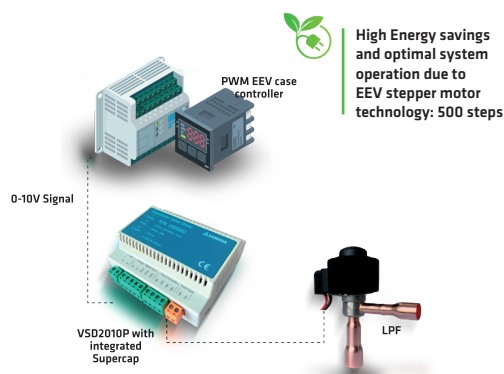
## YCQx Pressure Transducers

- Wide range of pressure sensor with different output signal:  
YCQB - 0.5-3.5 V output | YCQB - 0.5-4.5 V output | YCQC - 4-20 mA output
- Overall features: very robust design, reliability and tightness confirmed acc. DIN EN ISO 14903:2017 §7.4 and §7.6.5
- High tolerance in wide temperature range
- Wide medium temperature range for flare & solder models
- Models VDE certified acc. EN60335-2-24/40/89 for flammable refrigerants
- Models available with lead wire direct connector or with Packard and Molex socket connections
- Diversification: different pressure ranges and different level of accuracy
- Applicable for HFC / HFO / HC and R744
- Supply Voltage: 5V  $\pm$  0.25V DC (YCQB); from 10V to 30V DC (YCQC)
- Accuracy: from  $\pm$ 0.8% FS
- Protection class: IP66 / IP67



## VSD2010(P) EEV Positioner

- Unipolar EEV motor driver
- Compatible with Sanhua LPF and DPF valves
- Analog signal input: 0 to 10VDC or 4 to 20mA
- Model with backup battery available
- Operating temperature: from -30 to 55°C
- Certification: CE declaration according to EMC directive
- Installation method: DIN35 rail
- Self-holding mechanism: maintain excitation in stop position min. 0.1s
- Drive speed: 30pps (normal operation) / 90pps (during backup battery close valve)



## SEC HEAVY DUTY Superheat Controller

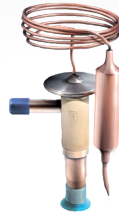
- High protection degree level: enclosure IP67+
- Low temperature resistant parts to be installed down to -35°C environment
- Integrated temperature sensor, pressure transmitter socket and EEV coil
- Accurate and efficient superheat control algorithm for a maximized system efficiency
- Operating temperature: from -35 to 55°C
- 29 refrigerants including HC and R744
- Certification: CE declaration according to EMC directive.
- Power supply: 220VAC (85V - 264V) 50/60Hz, 25VA(220VAC)
- Communication: RS485
- Inputs: pressure transmitter x1, temperature sensor x1, digital signal x2 (run signal and defrost signal)



# One-source Solution for Plug-in & Semi Plug-in Cabinets

## RFCB06 Thermostatic Expansion Valves

- Design refrigerant: R290
- Design pressure: 35 bar
- Cooling capacity: 0.85 kW to 7.0 kW (for R290)
- Compact design and build-in orifice
- Straight or angle design
- Internal or external equalization
- Bleed and MOP function on request



## RFCC Thermostatic Expansion Valves

- Design refrigerant: R290
- Design pressure: 46 bar
- Cooling capacity: 0.94 kW to 14kW (for R290)
- Compact design with build-in orifice
- Stainless steel design with copper connections
- Internal or external equalization
- Bleed and MOP function on request



## LPF Solenoid Valves

- Design refrigerant: HFC, HFO, HC
- Design pressure: 45 bar
- Kv values from 1.9 up to 3.5 m<sup>3</sup>/h
- High internal tightness, optimized for hot-gas defrost
- Solder ODF connections: sizes from 1/4" to 5/8"
- Direct or pilot operated
- Straight or angle design



## MDF-A03/B03 (NC) Solenoid Valves

- Design refrigerant: HFC, HFO, HC
- Design pressure: 45 bar
- Kv values from 0.16 up to 25.0 m<sup>3</sup>/h
- Max OPD: 31 bar (with AC coils)
- Min OPD: from 0 bar to 0.2 bar
- Solder ODF connections sizes from 1/4" to 2" 1/8
- Normally open models on request



## MPS Mini Pressure Switches

- Design refrigerant: HFC, HFO, HC
- Model types:
  - High pressure switch
  - Low pressure switch
  - Fan regulation (on/o cycles)
- Protection Class: IP66 / IP67
- Various customizations on request



## PSV LP/HP Pressure Switches

- Compact dimensions
- High precision and excellent stability
- Long lifetime with excellent reliability
- SPDT switch to ensure fast reactions
- Extended pressure range option 8÷42 bar



## SYJ Sight Glasses

- Design refrigerant: HFC, HFO, HC
- Design pressure: 46bar
- Connection sizes from 1/4" to 1-1/8"
- Flare and solder connections
- PTFE sealing
- Full port passage with low pressure drop



## DTG-M Filter Driers

- Design refrigerant: HFC, HFO, HC
- Design pressure: 48,3 bar
- Connection sizes from 1/4" to 1/2"
- Fully hermetic stainless-steel housing
- Solid filter cores with 100% 3Å desiccant
- Compact design, meeting 150g system limits
- Unidirectional flow





### MCHE evaporator for refrigerated cabinets

- Suitable for different refrigerants: HFC, HFO, R290
- Standard Design Pressure: 45bar
- Up to 60% internal volume reduction compared traditional F&T
- Fins Per Inch: FPI=4 or above
- Full aluminium construction with copper connection
- Several bracket options for a flexible installation
- Designed and optimized for different types of refrigerated display case



### SH & EU range MCHC condenser

- Design refrigerant: R290
- 29 models in standard range
- Cooling capacity: 356W to 7373W (for R290)
- Optimized height for display cabinets
- Low FPI (10/12.7) to minimize dust accumulation
- Up to 30% refrigerant charge decrease
- Ultra-light, compact design



### SD2 Inverters

- Design refrigerant: R290
- Dedicated for rotary and scroll compressors
- Pollution degree III design (A3 refrigerants)
- Self-diagnostic system with boot loader function
- Cooling: Horizontal or vertical radiator, flat plate
- Tested with: Highly, SIAM, Panasonic and other...
- TUV CE certification



### Brazed Plate Heat Exchangers

- Sanhua BPHE provide efficient heat transfer with a small footprint
- Wide BPHE range as evaporators, condensers, de-superheater, fluid to fluid exchangers suitable for all the main refrigerants including the natural ones (R290, R744)
- Compact Exchangers, easy to install, gasket Free with a Fully Hermetic design
- Many options available such as Soldering or Thread connections



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