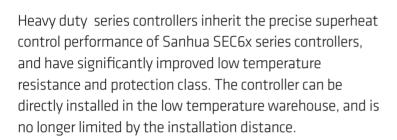
HEAVY DUTY SERIES

ELECTRONIC EXPANSION VALVE CONTROLLER





FEATURES

- PROTECTION CLASS UP TO IP67
- ADOPT LOW TEMPERATURE RESISTANT COMPONENTS, CAN OPERATE NORMALLY IN -35°C COLD STORAGE
- INTEGRATED TEMPERATURE SENSOR, PRESSURE TRANSDUCER WIRING HARNESS AND ELECTRONIC EX-PANSION COIL, MORE CONVENIENT TO INSTALL
- ACCURATE AND EFFICIENT SUPERHEAT CONTROL, IMPROVING THE EFFICIENCY OF COLD STORAGE

GENERAL SPECIFICATIONS

Operating temperature: -35~55°C
 Storage temperature: -40~55°C,

Relative humidity: ≤95%RH, no condensation

- Protection Class: IP67
- Up to 29 common refrigerants are available
- Certifications: CE

ELECTRICAL PARAMETERS

- Power supply: 220VAC(85V~264V) 50/60HZ, Power: 25VA (220Vac)
- Communication mode: RS485 Modbus

Inputs: 1 Pressure transducer input, 1 Temperature sensor input, 2 Digital signals (Start-stop signal and defrost signal)

• Output: Electronic expansion valve

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HEAVY DUTY SERIES

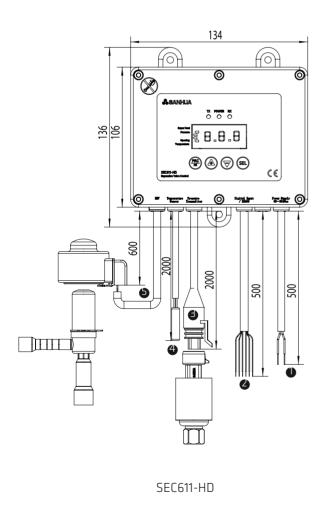
Heavy Duty Series Electronic Expansion Valve Controller

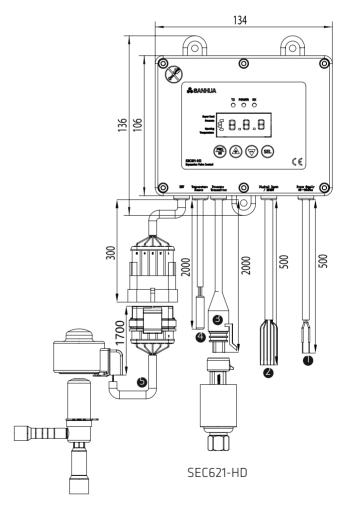


OPTIONAL REFRIGERANT

Code	Refrigerants								
0	R22	7	R1234yf	14	R744(CO2)	21	R124	28	R600a
1	R404A	8	R290	15	R744A(N20)	22	R717		
2	R410A	9	R450A	16	R32	23	R407H		
3	R134a	10	R513A	17	R245fa	24	R454C		
4	R407C	11	R448A	18	R23	25	R455A		
5	R507	12	R449A	19	R407A	26	R454B		
6	R1234ze	13	R452A	20	R407F	27	R452B		

DIMENSIONS





Note:

The thickness of the controller is 31mm

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HEAVY DUTY SERIES

Heavy Duty Series Electronic Expansion Valve Controller



FUNCTION INTRODUCTION

No.	Label	Name	Function	Remarks		
1	Power Supply	Power Supply	L (Red) N (Black)	Alternating current 220VAC (85V \sim 264V) 50/60Hz		
2	Digital Input /RS485	Digital Switch Input	Start/Stop RUN (Gray)	Connection with GND		
			Defrost DEF (Yellow)	Connection with GND		
			GND (Black)	 Connect with RUN, defrost signal to be a switch. Connect with 12Vdc to power the remote display. 		
		RS485 Modbus	B (Blue)	RS485 B-(TRX-)		
			A (Orange)	RS485 A+(TRX+)		
			12VDC (Red)	12V output		
3	Pressure Transmitter	Pressure Transmitter 0-20bar 0.5-3.5V	5VDC (Red)	Power Supply		
			S1 (White)	Signal input		
			GND (Black)	GND		
4	Temperature Sensor	Temperature Sensor	GND (Red) T (Black)	NTC 5K Ω , -50°C \sim +50°C		
5	EEV	Electronic Expansion Valve Coil	12VDC (Gray) B (Black) A (Yellow) B (Red) A (Orange)	The unipolar electronic expansion valve coil is 5-wire SEC611-HD: The coil is integrated with the controller; SEC621-HD: Coil and controller connected by waterproof connector, with coil PQ- M24012-000071.		

ORDERING METHOD

No.	ltem	Valve Model	Details		
1	Heavy Duty Controller	SEC611-HD	Electronic Expansion Valve Controller (Coil and controller are integrated)		
	Heavy Duty Controller	SEC621-HD	Electronic Expansion Valve Controller (The coil is connected by a waterproof connector)		
2	Pressure Transmitter	YCQB02L171	Input -1~20bar, Output 0.5~3.5V -packard electrical connector 1/4 thread pressure interface		
3	Temperature Sensor	NTC2A1	NTC 5K Ω , -50°C \sim +50°C, Cable Length 2m		
4	Electronic Expansion Valve Coil	PQ-M24012-000071	With TE waterproof joint, cable length 1700mm		
5	Remote Display	MD03-R4	For display and parameter setting		
6	Manual Operator	MD04-R4	For one-click copying of parameters		

Note

- 1) The Heavy Duty controller package contains pressure transmitter, temperature sensor and coil, no need to order separately; Remote display and manual operator need be ordered separately;
- 2) Pressure transmitters, temperature sensors and electronic expansion valve coils can be ordered separately for after-sale needs
- 3) The valve body of the electronic expansion valve needs to be matched according to the actual demand, optional SANHUA DPF(T01), DPF(TS1) and LPF(recommended), not matching DPF(S03)

ATTACHMENTS AND ACCESSORIES

Pressure Transmitter	Temperature Sensor	Coil (waterproof connector)	Remote DisplayMD03	Manual OperatorMD04	
			Acmeny (ASSAULA	

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