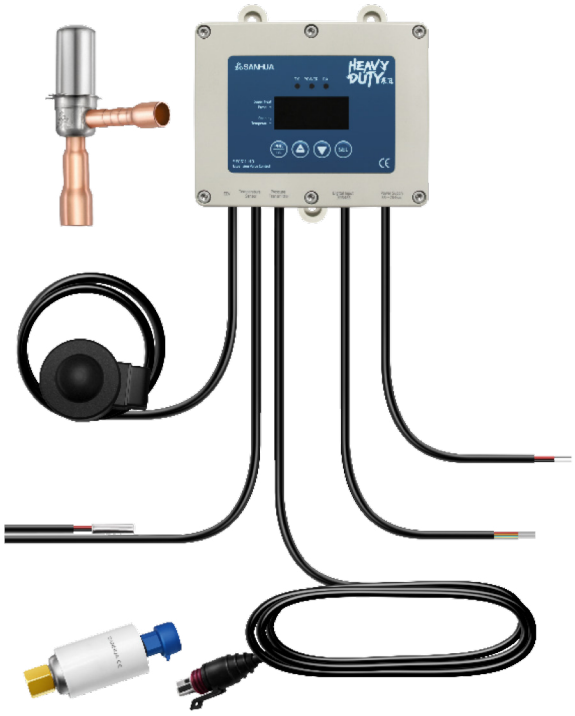
SANHUA

Electronic Expansion Valve Controller Heavy Duty Series



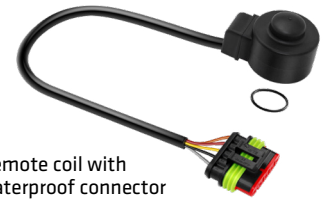
Heavy Duty series is a superheat controller with low temperature resistance and high water protection class.

It can be installed inside of the cold storage room.

The SEC-HD series is compatible with all refrigerants, including CO2 (R744) and HC/HFO.

KEY FEATURES

- High water resistance
- 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 performance to improve the refrigeration system efficiency
- Remote display available allowing a quick and comfortable access of the operating parameters.
- Enclosure IP67
- Large choice of pressure transducers adapted to your application
- Integrated or remote coil for longer cable length and quicker service
- Power supply: 220 Vac (85 V ~ 264 Vac), 50/60 Hz, 25 VA under 220 Vac
- Communication: RS485



Remote coil with waterproof connector

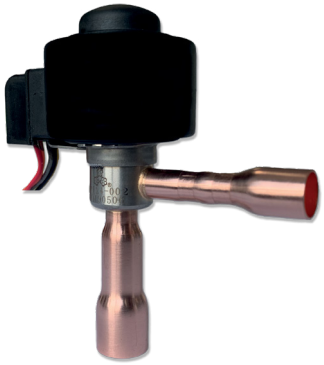
- **Shorter installation time:** The possibility to install SEC-HD inside the evaporator allows for significant time savings on-site.
- **Convenient setup:** Refrigeration professionals can conveniently place and set up the controller inside the evaporator during site preparation, even before the delivery of the goods.
- **Copy key functionality:** The copy key is useful for reproducing configurations, especially in cases with numerous evaporators in warehouses.
- **Versatile installation:** SEC-HD can also be installed on the evaporator's facade, and its IP67 protection ensures compatibility with cleaning procedures required on evaporators.

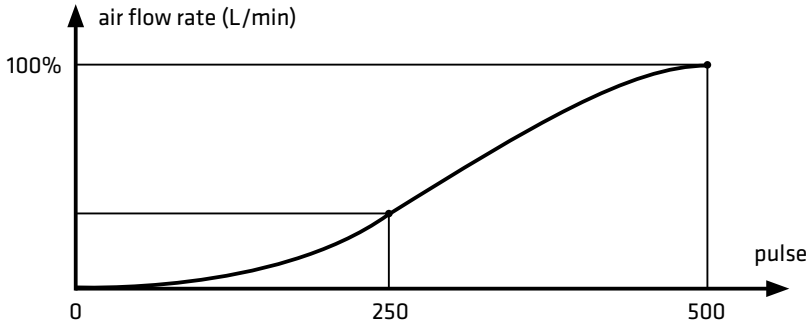
A2L R290 R744

ORDERING REFERENCES

Name	Model	U11 code	Description
SEC-HD with integrated coil			
EEV Controller	SEC631-HD (1)	10680004002	PQ-M24 coil included
SEC-HD with remote coil			
EEV Controller	SEC641-HD (1)	10680003902	PQ-M24 coil included (remote)
Pressure transducer			
Pressure Transducer (CO2)	YCQB06L01	10185067202	Input: 0~60 bar, Output: 0.5-3.5 V Packard connector, Flare 7/16-20UNF-2B (Female)
Pressure Transducer (HC) - (inch)	YCQB02H165	10185087602	Input: -1~20 bar, Output: 0.5-3.5 V Packard connector, Solder ¼" (ODM)
Pressure Transducer (HC) - (mm)	YCQB02H166	10185087002	Input: -1~20 bar, Output: 0.5-3.5 V Packard connector, Solder 6 mm (ODM)
Pressure Transducer (HFC)	YCQB02L171	10185060402	Input: -1~20 bar, Output: 0.5-3.5 V Packard connector, Flare 7/16-20UNF-2B (Female)
Remote Display	MD03-R4	10680002502	For displaying and parameter setting
Manual Operator	MD04-R4	10680002402	For quickly copying parameters

Note: 1) Approved EEV models: LPF, LPF-T.
Pressure transmitter and valve body are not included in the controller package.





LPF and LPF-T

GENERAL INFORMATION

Condition: Tc/Te/Sc/SH: 45 °C/-10 °C/2K/6K (0 °C/-20 °C/2K/6K for R744)

Valve Model	Kv (m^3/h)	Maximal Cooling Capacity [kW]							
		R134a	R513A	R404A	R448A	R454B	R455A	R290	R744
LPF03/LPF03T	0.009	0.90	0.74	0.80	1.14	1.62	1.06	1.21	1.89
LPF05/LPF05T	0.014	1.39	1.15	1.23	1.75	2.49	1.64	1.86	2.91
LPF08/LPF08T	0.025	2.3	1.84	2.0	2.8	4.0	2.6	3.0	4.7
LPF10/LPF10T	0.04	3.6	3.0	3.2	4.6	6.5	4.3	4.9	7.6
LPF14/LPF14T	0.08	6.9	5.7	6.1	8.7	12.4	8.1	9.2	14.4
LPF18/LPF18T	0.12	9.5	7.9	8.4	12.0	17.1	11.2	12.8	19.9
LPF24/LPF24T	0.20	13.0	10.8	11.5	16.4	23.4	15.3	17.5	27.2
LPF30/LPF30T	0.27	18.4	15.2	16.2	23.3	33.0	21.7	24.7	38.5
LPF32/LPF32T	0.30	20.2	16.6	17.8	25.5	36.2	23.7	27.0	42.1
LPF45	0.5	45.3	37.3	39.9	57.1	81.1	53.3	60.6	-
LPF52	0.7	60.6	49.9	53.4	76.3	108.5	71.2	81.1	-
LPF55	0.9	70.2	57.7	61.8	88.4	125.5	82.5	93.9	-
LPF62	1.1	85.3	70.2	75.2	107.5	152.7	100.3	114.2	-

Note: The Max capacity is given for full opened position
LPF... is standard series, LPF...T is designed for CO2 application

Please look in the Datasheet for specific details from SEC-HD, LPF-T and DPF.

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