

AK-CC—Case Controllers



All of the controls below control anti-sweat heaters, fan operation, lighting door alarms, case cleaning, dual temperature control, and provide alarm notification.

Danfoss Type	AK-CC 210	AK-CC 550A	AK-CC 750	AK-CC 525A	AK-CC 55 Compact	AK-CC 55 Single Coil	AK-CC 55 Multi Coil
Overview	Single evaporator on/off (typically solenoid valve) control. May be used on self-contained cases or rack systems. May be stand alone or tied into front end controller.	550A Single evaporator control which controls Danfoss AKV based on superheat. May be stand alone or tied into front end controller.	750 Multi-evaporator control (up to 4) which controls Danfoss AKV based on superheat or temperature.	525A single evaporator control which controls Danfoss AKV based on superheat; may be stand alone or tied into front end controller (no local display)	Single evaporator on/off solenoid control for TXV system or EEV control for AKV system. Can be stand alone or tied into front end controller	AK-CC 55 single evaporator control which controls Danfoss AKV based on superheat; may be stand alone or tied into front end controller	AK-CC 55 multi-evaporator control (up to 3) which controls Danfoss AKV based on superheat or temperature
No. of evaporators	Single	Single	Multiple	Single	Single	Single	Multiple
Valve Control	On/off—Typically solenoid valve with TXV	EEV	AKV or Solenoid	EEV	AKV or solenoid	EEV	EEV
Mounting	Panel mount	DIN rail or wall	DIN rail or wall	DIN rail or wall	DIN rail or wall	DIN rail or wall	DIN rail or wall
Display	On front	On front	Connection for 1–4 displays	No	No	UI-version only	No
Temp. control	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Defrost	Yes with connections	Yes, adaptive with skip and coordination	Yes, adaptive with skip and coordination	Yes with connections	Yes	Yes, adaptive with skip and coordination	Yes
No. of compressors	1 or 2	1 or 2	1	1 or 2	1 or 2	1 or 2	1
No. of outputs	4	5 × AKV	8, max. 4 AKV	5 + 1 AKV	4	5 + 1 AKV	4 + 3 AKV
No. sensors	3	6	11	6	3	6	6
No. DI	2	3	11	3	2	3	2
Communication	Opt. LON RS 485 or MODBUS	MODBUS + opt. LON RS 485	LON RS 485 or LON TP 78	MODBUS + opt. LON RS485	MODBUS	MODBUS	MODBUS

Danfoss Type	Supply Voltage (V)	Notes	Danfoss Code No.
AK-CC 210	115		084B8534
AK-CC 210	220		084B8520
AK-CC 525A	115		084B8017
AK-CC 525A	2230		084B8019
AK-CC 550A	115		084B8036
AK-CC 550A	230		084B8030
AK-CC 750	24 AC/DC	LON TP78	080Z0130
AK-CC 750	24 AC/DC	LON RS485	080Z0139
AK-CC 55 Compact	115/230V	Modbus	084B4081
AK-CC 55 Single Coil	115/230V	Modbus	084B4082
AK-CC 55 Single Coil UI	115/230V	Modbus	084B4083
AK-CC 55 Multi Coil	115/230V	Modbus	084B4084