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
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.
No. of evaporators	Single	Single	Multiple
Valve Control	On/off—Typically solenoid valve with TXV	EEV	AKV or Solenoid
Mounting	Panel mount	DIN rail or wall	DIN rail or wall
Display	On front	On front	Connection for 1–4 displays
Temp. control	Yes	Yes	Yes
Defrost	Yes with connections	Yes, adaptive with skip and coordination	Yes, adaptive with skip and coordination
No. of compressors	1 or 2	1 or 2	1
No. of outputs	4	5 × AKV	8, max. 4 AKV
No. sensors	3	6	11
No. DI	2	3	11
Communication	Opt. LON RS 485 or MODBUS	MODBUS + opt. LON RS 485	LON RS 485 or LON TP 78

Danfoss Type	Supply Voltage (V)	Notes	Danfoss Code No.
AK-CC 210	115		**084B8534**
AK-CC 210	220		**084B8520**
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**

Displays and Display Accessories for AK2 Sis

Danfoss Type	Description	Notes	Danfoss Code No.
EKA 163A	Display unit	Screw terminals	**084B8562**
EKA 163B	Display unit	With plug connector	**084B8574**
EKA 164A	Display unit withoperation buttons	Screw terminals	**084B8563**
EKA 164B	Display unit withoperation buttons	With plug connector	**084B8575**
EKC 202D2	Walmart temperature Display	EKA Remote Display (Green Display)	**084B8670**
EKC 202D2	Walmart temperature controller	Stand Alone Display Unit 110V (Green Display) & LON 485 communication card	**084B8693**
	Cable with plugs for display unit	6.5 ft.	**084B7298**
	Cable with plugs for display unit	19.5 ft.	**084B7299**

Other Accessories for AK2 Case/Rack Controllers

Danfoss Type	Description	Applicable Product	Danfoss Code No.
EKA 173	LON FTT10 card	EKC 316	**084B7092**
EKA 175	LON RS485 card	Top of form EKC 3XX, AK-CC 450/550/550A	**084B8579**
EKA 178	AK-CC 210 MODBUS card	Top of form EKC 202/210 Bottom of form	**084B8564**
EKA 179	AK-CC 210 LON RS485 card	Top of form EKC 202/210 Bottom of form	**084B8565**
EKA 183A	Progamming Key	EKC 102, 202, 204, 3XX (excl. EKC 301), 4XX and 5XX, AK-CC 210 and 550, AK-CT, ERC 211, 213, and 214	**084B8582**
	EKA mounting flange kit	EKA 163, 164	**084B8584**
	Metal EKC Bracket	Any standard 71mm × 29mm panel mount display or controller	**60-274**