



Service Guide

Controller replacement AK-CC 750 on AK-SM 800

ADAP-KOOL[®] Refrigeration Control System





AK-CC 750 Controller Replacement (pn# 080Z0139)

The following steps describe the procedure for replacing an AK-CC 750 case controller on an AK-SM 800 series controller.

At AK-CC 750:

- 1. Disconnect the 24 volt power plug, communication cable, and all other terminal blocks from the AK-CC 750 controller being replaced. Note original locations of each cable and terminal block, so they can be reconnected correctly after replacement is done.
- 2. Remove the controller.
- 3. Install replacement AK-CC 750. Set rotary dials to match address of original controller. Reconnect the communication cable, the terminal blocks, and finally the 24 volt power plug.
- 4. Connect to AK-CC 750 with PC and Service Tool software. (default login is 'SUPV' and 123).
- 5. In Service Tool software, press Service button (yellow wrench) and go to 'Select Application'.



- 6. Select appropriate quick setup. This will close down Service Tool.
- 7. Reconnect to AK-CC 750 via Service Tool, and return to 'Select application'.
- 8. Set # of evaporators to appropriate value.

At AK-SM 800:

- 1. Login to controller
- 2. Press menu button on keypad and select option 2 for 'Network Nodes'.





3. Highlight 'Press for complete rescan' and press Ok so that AK-CC 750 can be brought online.

Dan	foss ENG	GINEERIN	G TOMORR	ow								
Fi	le Sin	nulator	Dashbo	oard Alar	ms Sys	stem V	liew	Detail	Schedules	Info	History	Configuration
Loca	tion: 🕨	Configu	ration 🕨 Ne	etwork Nodes								
Node	Overview	Points	Scan Status	Config Status	Duplicates	Files	Upload	Download				
- 60	Channel	LONNO	ovs									Enabled
0	Channel	MODBUS	5-RS485									Disabled
1	Channel	SNMP										Disabled
100	Channel	PI-200	D									Disabled
	Channel	MODBUS	5 TCP									Disabled
	_											
2005	Press 1	or com	plete resca	in								
	Tast	acall										

4. Once scan is complete, verify new AK-CC 750 has come online. To do so, from current screen go to Config Status tab, locate case controller address in list and verify status column shows 'online'.

Danfoss	ENGIN	IEERING T	OMORRO	w					
File	Simu	lator	Dashbo	ard Ala	rms S	ystem V	iew	Detail	Sche
Location:	Ne	etwork Nod	es						
Node Overvi	ew P	oints Sca	n Status	Config Status	Duplicate	es Files	Upload	Download	
:	Iype	Address	Status	Model					
	GN	21	Online	AK-CC750	-061x				
	GN	22	Online	AK-CC750	-061x				
	GN	23	Online	AK-CC750	-061x				

6. To download setpoints to controller, press gear button on keypad to enter configuration menu.



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7. Now navigate to Control->Refrigeration->Circuits->Setup. In the drop-down on the left, locate the case controller being replaced. If prompted at any point to 'retrieve configuration', be sure to select no.

Circuit AA1a	Summary	→ Setup	
Circuit AA1a			
Circuit AA1b			
Circuit AA1c	en injectio	n off	Detrieve Controller Configuration
Circuit AA1d			W Retrieve Controller Conliguration
Circuit AA2a			Retrieve configuration from controller?
Circuit AA2b	e		Danit anti-
Circuit AA2c	rol		Don't ask again
Circuit AA2d	d		Yes No
Circuit AA3a			
Circuit AA3b			
Circuit AA3c			
Circuit AA3d			

8. Choose 'Select Application' from the drop-down on the right, and ensure Main Switch is set to 'OFF' and Configuration Lock set to 'Unlocked'. If not, scroll to setting so that it is highlighted, and press OK key on keypad to toggle to correct option.

Туре	Setup	Сору	Upload	Download	Import SI	Imp	ort OI	Ext Cfg	Alarms	
Circ	cuit AA1a		-	Select Applica	ation	-	Setu	p		
0	* Main	Swite	ch				OF	F		
2	* Conf	igurat	tion Lo	ck			Un	locked		
0	* Sele	ct App	licati	on		Make New Selection				
0	* Refr	igerar	nt			R22				
0	* Main	s Fred	quency			60-Hz				
-	* Alar	m Lang	guage				US	English	1	

9. Now navigate to Download tab, highlight and press OK key on 'press to deselect all'. Next, highlight the case controller to download to, and press OK. This should place a check mark in the box next to the controller address.

Туре	Setup	Сору	Upload	Download	Import SI	Import OI	Ext Cfg	Alarms	Alarm Select
	Press	to do	wnload 1	to selecti	on				
	Pi	cess to	select	t all					
	Pi	cess to	desele	ect all					
	Do	on't le	eave the	e screen.	Download	in proce			
	Addres	s Stat	tus Time	2					
~	21	Unkr	nown						
	22	Unkr	nown						
	23	Unkr	nown						



10. Scroll to top of screen and highlight/press OK on 'Press to download to selection'. You will see a prompt not to leave the screen as the download occurs. Once complete/successful, a timestamp will be placed under the Time column (2nd screenshot below).

Туре	Setup	Сору	Upload	Download	Import SI	Import OI	Ext Cfg	Alarms	Alarm Select	
	Press	to do	wnload t	to selecti	on					
	Pi	cess to	select	t all						
	Pi	cess to	desele	ect all						
	Do	on't le	eave the	e screen.	Download	in proce	235			
	Addres	s Stat	tus Time	2						
1	21	Unkr	nown							
	22	Unkr	nown							
	23	Unki	nown							
	23	UIIKI	IOWII							

Туре	Setup	Сору	Upload	Download	Import SI	Import OI	Ext Cfg	Alarms	Alarm Select
	Press	to dow	wnload t	t <mark>o select</mark> i	on				
	Pi	ress to	select	all					
	Pi	ress to	desele	ect all					
	PI	ress to	o desele	ect all					
	Addres	ress to ss Stat	o desele tus Time	ect all					
V	Addres 21	ress to ss Stat Pass	tus Time	ect all 23/17 11:5	4A				
	Addres 21 22	ress to ss Stat Pass Unkr	tus Time s 03/2	ect all 23/17 11:5	4A				

11. Return to Setup tab. Ensure drop-down on right is still set to 'Select Application. Change Configuration Lock to 'Locked' and Main Switch to 'On' for case operation to begin.

Туре	Setup	Сору	Upload	Download	Import SI	Import OI	Ext Cfg	Alarms	
Circ	uit AA1a		-	Select Applica	ation	- Setu	ıp		
0	* Main	n Swite	ch				ON		
0	* Cont	figurat	tion Loo	ck			Lock	ed	
\$	* Sele	ect App	plicatio	on			Make	New Sele	ction
3	* Ref:	rigera	nt				R22		
0	* Main	ns Free	quency				60-H	z	
0	* Ala	rm Lang	guage				US E	nglish	



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