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MPC 46 and the menus.

The menus are divided up in two main menus.

A menu for presentations of values in the display and settings for alarms parameters, and another menu for technical, practical or physical settings to a normal refrigerator or freezer.

In each main menu there exist smaller submenus. These submenus are divided up in specific menu for kind of cycles as defrosting or the settings for running the evaporator fan.





When servicing the product.

Make sure the appliance is switched off at the socket before service is performed on electrical parts. It is not sufficient to switch off the cabinet by the START/STOP key as there will still be voltage to some electrical parts of the cabinet.



Start-up sequence

When the product switches ON, the software is loaded into the MPC-46. The display shows multiple informations, see below:





Start up after power on - hot product.

On hot products or if the product has just been unpacked and connected to mains power, the temperature is so high that the defrosting cycle is cancelled, and refigeration starts immediately.

Because the product has not been running before, the setpoint is displayed and not the current temperature.





Start up after power on - cold product.

On cold products, or if the product has been turned off for a short while, and the evaporator temperature is still below the freezing point, a defrosting cycle will be activated, and refrigeration starts later.

Because the product has not been running before, the setpoint is displayed and not the current temperature.





Defrosting

The defrosting cycle runs 4 times each day. If the cabinet is operating under severe load (frequent door opening and frequent replenishment) manual defrosting can become necessary.

To start manual defrosting: Push (P) + (D) for more than 3 seconds.

Refrigerator: Control lamps for fan $\xrightarrow{}$ and defrosting $\frac{\sqrt{2}}{\sqrt{2}\sqrt{2}}$ light up.

Extended refrigerator: Control lamp for defrosting $\frac{\sqrt{6}}{\sqrt{6}\sqrt{6}}$ light up, and lamp for fan $\frac{1}{\sqrt{6}}$ light up depending on setpoint.

Freezer: Control lamp for defrosting $\frac{1}{\delta_0 \delta_0}$ light up.

Shortly after defrosting has ended, the compressor starts, and the compressor symbol 🗍 lights blue.

The number defrosts can be changed. See chapter "User menu".

Temperature control and regulation:

- Keep ^(P) pressed. When doing this, the setpoint temperature is displayed. While ^(P) is kept pressed, the setpoint can be changed by pressing ⁽⁺⁾ or ⁽⁻⁾.
- Each time ⁽⁺⁾ or ⁽⁻⁾ is pressed the temperature will change one degree. The new value flashes in the display
- When the required setpoint has been set, let go of the keys, a short beep sounds, and the settings are saved.



Keylock

The keypad can be locked by simultaneously pushing $(1)^{+}$ for more than 5 seconds.

^{II} lights to indicate that the keys are locked, and a short beep sounds. Now it is not possible to use the keys for temperature setting etc.

The same code is to be used for unlocking the keypad again.

Error codes

- **OP** The door is open. The alarm system is activated, if the door is not closed within a certain time. The user is reminded that the door is not properly closed.
- F1 Cabinet sensor error. In the meantime the cabinet itself will maintain the set temperature by the
- $\underline{\Lambda}$ memory of the controller. Service assistance is required.
- **F2** Evaporator sensor error.
- The cabinet will keep running until the error has been mended. Service assistance is required.

F3/F4 Condenser sensor error. The cabinet will keep running, until the error has been mended. Service assistance is required.

Applies only to cabinets with built-in compressor.

F7 Indicates that the condenser temperature is too high. The cause might be a clogged condenser, or too high ambient temperature.
If the condenser or air filter needs cleaning, the cabinet must be disconnected at the mains power. Cleaning of the condenser is done with a brush or a vacuum cleaner.
The air filter can be removed and cleaned in a dishwasher at max. 50°C.
If the ambient temperature is too high, the placement of the cabinet might be wrong, and an alternative place should be found. Ventilation might help.
If this does not help, request service assistance.
Applies only to cabinets with built-in compressor.

Reminder of cleaning the condenser air filter

After 600 compressor running hours the filter must be cleaned and it is indicated by warning lights: FILTER \swarrow

If the cleaning is not completed within 650 hours, the warnings continue, and an acoustic alarm sounds.

Resetting the FILTER alarm

After cleaning the air filter, the controller must be reset to remove the alarms. It can only be reset by using a certain key combination.

• Push ^(b) three times followed by pushing ^(P) three times. FILTER alarm will disappear after 1 minute.



Compressor counter time setting

The default time value for the compressor counter is 600 hours.

The value can be changed i intervals of 50 hours.

Minimum value = 200 hours Maximum value = 2000 hours

To change the value, proceed as follows:

- Keep keys (4) and (5) pressed for 3 seconds.
- The FILTER indicator flashes, and the value 600 is displayed.
- Press the ⁽⁺⁾ key, until the right value is displayed.
- Press (P) to confirm the setting.
- The FILTER indicator is turned off.

Reset to factory setting

To reset the controller to factory setting:

- Press P + 1 + 3 for at least 5 seconds.
- **RES** flashes in the display.
- Press P to confirm, **RES** lights up for 2-3 seconds, and the buzzer gives a short signal.
- The controller then returns to normal display.



User menu

Push on ^(P) and ⁽¹⁾ buttons at the same time in more than 3 sec. and the first Setup menu appears in the display.

With and \bigcirc buttons its possible to look through each menu items in the "User menu". Push on P button to activate the desired item and adjust the setting with and \bigcirc buttons.

To confirm the new setting, push (P) button. Leave the menu item and user menu with the (a) button.

Menu access P+1	ļ	→I			
→I					
Dry refrigeration	DC		Activation	n of dry refrigeration. [ON/OFF]	
Rapid thaw	UF		Activation	on of rapid thaw. [ON/OFF]	
Local alarm setting	LAL	LHL	[° C] S	Setting the upper alarm limit. At alarm, the display shows: [A2].	
		LLL	[° C] S	Setting the lower alarm limit. At alarm, the display shows: [A3].	
		Lhd	[min.] Ti	Time delay for the upper alarm limit.	
		LLd	[min.] Ti	Time delay for the lower alarm limit.	
		DA	On/off A	Activation of local door alarm. At alarm, the display shows: [A1].	[on/off]
		DAd	[min.] Ti	Time delay for the door alarm.	
		BU	On/off A	Activation of buzzer. The buzzer sounds at alarms [A1], [A2], [A	A3].
			[1	1=on / 0=off]	
External alarm	EAL	EhL	[° C] S	Setting the upper alarm limit At alarm, the display shows: [A4].	
setting					
		ELL	[° C] S	Setting the lower alarm limit . At alarm, the display shows: [A5].	
		Ehd	[min.] Ti	Time delay for upper alarm.	
		ELd	[min.] Ti	Time delay for lower alarm.	
		DA	On/off A	Activation of local door alarm. At alarm, the display shows: [A1].	[on/off]
		DAd	[min.] Ti	Time delay for the door alarm.	
		BU	On/off A	Activation of buzzer. The buzzer sounds at alarms [A1], [A4], [A	A5].
			[1	1=on / 0=off]	
	ALL		Activation	on of escorting alarm limits. [FAS]= fixed limits / [ESC] = limits fo	ollowing
			1 11 1	aint	
			the setpo	oint.	



User menu overview:





Visual and acoustic settings

Push on (P) and (2) buttons at the same time in more than 6 sec. and the menu item [A] appears in the display.

With \bigcirc and \bigcirc buttons it's possible to look through the main menu item [**A**] and [**P**]. Push on P button to enter the submenu from the main menu items.

With \bigcirc and \bigcirc buttons it's possible to look through the submenus menu items. Push on P button to enter the desired menu item and adjust the setting with \bigcirc and \bigcirc buttons.

To confirm the new setting, push P button. Leave the menu item and submenu with the button.

Menu access P+2	Ţ	→I		
→I				
Alarm setup	А	A1	[° C]	In case of condenser overheat, compressor protection cycle is started.
		A2	[° C]	Condenser temperature, which disconnects the compressor protection
				cycle.
		A3	[min].	Re-enter time for acoustic alarm (min.)
Display	Ρ	P1	[min.]	Temperature freeze after defrosting end.
presentation				
		P2	[° K]	Temperature freeze around setpoint. Temperature fluctuation filter.
		P3	[sec.]	Display updating frequency.
		P4		Selection of Celsius or Fahrenheit temperature scale.





Settings for running cycle

Push on \bigcirc and \bigcirc buttons at the same time in more than 6 sec. and the menu item [**C**] appears in the display.

With and \bigcirc buttons it's possible to look through the main menu item [**C**], [**F**] and [**d**]. Push on P button to enter the submenu from the main menu items.

With $\textcircled{\bullet}$ and \bigcirc buttons it's possible to look through the submenus menu items. Push on P button to enter the desired menu item and adjust the setting with $\textcircled{\bullet}$ and \bigcirc buttons.

To confirm the new setting, push (P) button. Leave the submenu and main menu item with the (a) button.

Menu access P+3 →	Ţ	→i		
Compressor setup	С	C1	[° K]	Differential for compressor cut-in and cut-out.
· · ·		C2	[° C]	Highest allowed temperature limit for the cabinet.
		C3	[° C]	Lowest allowed temperature limit for the cabinet.
		C4	[min]	Forced pause time for compressor between cut-out and cut-in.
		C5		Number of condenser sensors connected.
		C6	[min]	Compressor stop by open door.
		C7	[° K]	Soft differential for cool/heat cut-out (kelvin)
		C8	[° C]	Setpoint for condenser fan
		C9	[° K]	Cut-out differential for condenser fan (kelvin)
Evaporator fan	F	F1	[° C]	Temperature allowing the evaporator fan to start after defrosting.
		F2	[min.]	Pause time of evaporator fan, while the compressor is stopped.
		F3	[sek.]	Running time of evaporator fan, while the compressor is stopped.
		F4	[° K]	Stop temp. of LT compressor i cascade evaporator (celcius)
Display presentation	D	D1		Number of defrosts / 24h
		D2	[° C]	Defrost stop temperature measured at the evaporator.
		D3	On/off	Activation of defrost by start-up sequence [1=on / 0=off].
		D4	[min.]	Maximum defrosting time.
		D5		Selection between automatic- [1], air- [2] or electric defrosting [3].
		D6	[min.]	Dripping time after defrosting
		D7	[° C]	Temperature limit deciding the defrosting method, when d5 = [1]
		D8	[° C]	Evaporator temperature starting an extra defrosting cycle.





Test program for relays and electrical components

Push on (P) and (4) buttons at the same time for more than 6 sec. and the menu item [**tC**] appears in the display.

Note: When this test program is started, all outputs are de-activated, which means the cabinet is turned off. It might be experienced that the compressor does not start again after leaving the program, because the compressor protection "forced pause" takes effect.

With \bigcirc and \bigcirc buttons its possible to look through each menu items in the "Service program". Push on \bigcirc button to activate the desired relay and the display glows with [**on**]. The desired relay conducts now power to the electrical component.

Push the ^(b) button to switch off the power from the electrical component. Leave the service program with the ^(b) button.

Menu access P+4 →	J	P-key → [on]
Compressor	TC	Comressor is running, and if a condenser fan is present, it runs too.
Evaporator fan	TF	Evaporator fan is running
Defrost heater	Td	Defrost heater is turned on. Warning: the heater might be very hot. Danger of
		burn!
Light	TI	Light is switched on.
Alarm output	TA	Activation of voltage free contact. Alarm output.
Display test	TdP	All LED's light up for 1 sec. and the buzzer sounds. Then the software revision
		number is displayed.





Display of current sensor inputs

Push on $^{(P)}$ and $^{(5)}$ buttons at the same time in more than 6 sec. and the menu item [**P-A**] appears in the display.

With O and \bigcirc buttons its possible to look through each menu items to check each sensor in the cabinet. Push on P button to activate the actual sensor and the display shows the actual temperature. Leave the program with the O button.

Menu access P+5 →	Ţ	P-key → [° C]	Disp caus	play message and se			
Room sensor	P-A	Room sensor measurement is displayed	F1	Room sensor error			
Evaporator sensor	P-b	Evaporator sensor measurement is displayed	F2	Evap.sensor error			
Condenser sensor	P-C	Condenser sensor 1 measurement is displayed	F3	Condenser sensor 1			
1				error			
Condenser sensor	P-d	Condenser sensor 1 measurement is displayed	F4	Condenser sensor 2			
2				error			
*							
An overheated cond	denser	could be caused by a clogged air filter. Can be	F7	Overheated			
triggered by both C and d sensor.							
By open door this s	ymbol i	s displayed. In event of a too long door opening,	-0-	Open door symbol			
an alarm is triggere	d [A1].						



Reset the controller to factory setting

To reset the controller to factory settings:

Push (P + (1 + (3))) for more than 6 seconds. The display shows [**RES**]. Push (P), and a beep sounds for confirmation".



Parameter settings in commercial program variants

Ny programvariant			000	300	002	100	102	104	302	200	202	205	206	350	203	304
Det gamle navn			K1+	B1+	K7+	M1+	M3+	Ny (M1+	B2+	F1+	F2+	Ny (F4•	Ny (F1•	P1+	F4+	B3+
Systemvars Versions nummer			100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00 ES E01	100.00	100.00	100.00	100.00 Br D01	100.00	100.00
Sotounkt (colrine)			FS K01	5	F 5 K05	5 140	5 1403	5 14103	500 M0	-18	-18	-18	-18	-18	-18	-18
Temperatur amràde (celriur)			+127+2	+127+2	+127+2	+127-5	+127-5	+127-5	+127-5	-57-25	-5/-25	+107-25	-5/-25	+107-30	+107-25	-5/-25
Menu indgang: P+1	1							0				0	0			
Terkelon-H0foff-HI	dC		•	•	•	•	HI	HI	•	•	•	HI	•	HI	HI	•
Opteningen/off	UF	_	•	•	•	•	OFF	OFF	•	•	•	OFF	-	OFF	OFF	•
Local Alarm Limits	LA	1. ur	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Dore lakale alarm grænne (colriur) Nedre lakale alarm grænne (colriur)			. 20	. 20	. 20	. 20	20	- 20	- 20	- 20	. 20	- 20	- 20	- 20	. 20	. 20
Tidrførrinkelre for nore lokale alarm (min.)		LHd	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Tidrforsinkelse for nedre lokale alarm (min.)		LLd														
Der alarm on-1/off-0		dA -	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tidrforsinkelse for åben dør (min.)		dAd	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Buzzer for lokal alarm on-1/off-0		ЬU	1	1	1	1	1	1	1	1	1	1	1	1	1	1
External Alarm Limits	EA			05	05	05	05		05	05	05		05		05	05
Øvre okrterne alarm grænne (celriur)		EHL	- 25	-25	-25	- 25	- 25	-25	-25	- 25	-25	-25	-25	-25	-25	-25
Nedrookstornoalarm grænse (colsius) Tidefensieledes fersener elekter elem (min)		EHd	03	-30	-30	03	-55	-55	-55	03	-30	-55	-30	-30	-50	-50
Tideforeinkoleo for nodeo oketoen alarm (min.)		FIN	00	60	60	60	60	60	60	60	60	60	60	60	60	60
Der alarm on-1/off-0		dA														
Tidrforrinkelre for åben dør (min.)		dAd								-						
Buzzor far lakal alarm an-17aff-0		ЬU	-	•	•	-	-	•	-	-	•	-	-	-	•	-
Calibration of sensor	cA	1														
Offrot jurtoring på følor A (kolvin)		CA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offrotjurtoring på følor E (kolvin)		CE CE		-	-	-	•	•	•		•	•	•	0	-	-
Official protection	EP			•	•	•	•	•	•	•	•	•	•	•	•	•
Altivering of front silving, Oct 1006-0		Act														
Text of frantzikring		tES														
Indetilling afzetpunkt for frostzikring (colriur)		SEt														
Aktuol virning af faloronr tomporatur (colriur)		PrE		•	•	-	•	•	•		•	•	•	•	•	
Farto- ollor orkartorondo alarmarænror (FAS-ESC)	ALI	<u> </u>	FAS	FAS	FAS	FAS	FAS	FAS	FAS	FAS	FAS	FAS	FAS	FAS	FAS	FAS
Skånrom nødkøling (roft-chill)	SC	L	-	•	•	-	-	•	•	-	•	•	•	-8	-	•
Hàrd ne dkeling (hard-chill)	HC	L	•	•	•	•	•	•	•	-	•	•	•	3.00	•	•
Tidestyretnedkaling (timed-chill)	PC	L	•	•	•	· .	•	•	•	· .	•	•	•	-18	•	•
Antal afrimninger pr. dag	dEF	-	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		-														
Valqttelor virti dirplay Mulia unda offalara kilaina ingi diretan	dP	5	-				-									
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Vagetuer vüki dürbay Muliqe valge filere til vining i dürplay Alarm & præsentation Alarm indstillinger	I A		- -	- -	- -	-	-	-	-	-	- -	- -	- -	- -	-	-
Vagetarovišti dirplay Muligo valga feloro til vizningi dirplay Alarm & præsentation Alarm indstillinger Kandarovstarovovajning alarm tund (cobiw)	I A	S 	- - 65 40	- - 65 40	- - 65 40	65	- 65	65	- - 65 40	- - 65 40	- - 65 40	- - 65 40	- - 65 40	- - 65 40	- - 65 40	- - 65 40
Vagetuer viet i die Jay Huliage valget filtere stil viening i dieplay Alarm & præsentation Alarm indstillinger Kanderostara verskegning alarm tand (selviw) Kanderostara verskegning alarm.tikk (selviw) Genindtrædiske tide, for al kunstil kalarm (nim.)	I A	5 A1 A2 A3	- - 65 40 5	- - 65 40 5	- - 65 40 5	- - - - - - - - - - - - - - - - - - -	- - 65 40 5	- - 65 40 5	- - 65 40 5	- - 65 40 5	- - 65 40 5	- - 65 40 5	- - 65 40 5	- - 65 40 5	- - 65 40 5	- - 65 40 5
Vagetuer vist ideplay Muliae valge offelse till virning i dirplay Alarm & præsentation Alarm indstillinger Kanderstar avervögning alarn tand (sebriar) Kanderstar avervögning alarn tand (sebriar) Ganindtradelzer tiden för akurtisk alarm (min.) Alarm historiken Vafri-0		A1 A2 A3 A4	- - 65 40 5	- - 65 40 5	- - 65 40 5	- - 65 40 5	- - 65 40 5	- 65 40 5	- - 65 40 5	- - 65 40 5	- - 65 40 5	- - 65 40 5	- - 65 40 5	- - 65 40 5	- - 65 40 5	- - - 65 40 5
Vatet ther visit display Mulia valg af falses till visining i display Alarm & præsentation Alarm indstillinger Kandavstar avorvågning alarm-tunk (cobriw) Kandavstar avorvågning alarm-tukk (cobriw) Gonindtrædelse tiden før alswrikk alarm (min.) Alarm historikan-tførf-0 Valg af falser tild anrazystemet	dP:	5 A1 A2 A3 A4 A5	- - 65 40 5 -	- - 65 40 5 -	- - 65 40 5 -	- - 65 40 5 -	- - 65 40 5 -	- 65 40 5 -	- - 65 40 5 -	- - 65 40 5 -	- - 65 40 5 -	- - 65 40 5 -	- 65 40 5 -	- 65 40 5 -	- - 65 40 5 -	- - 65 40 5 -
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Vagether visit dielegy Hulieg velgefielers til vinning i dieplasy Alarm & præsentation Alarm indstillinger Kandevstar svorskeping alarm tunk (cabriw) Kandevstar svorskeping alarm tuluk (cabriw) Genindtrædstær til den for skurtirk alarm (nin.) Alarm hivtarikan-Hafri-O Valg of falser til alarmzystem Præsentation af temperatur Fryzning al temperatur vinning ofter a finning Fryzning al temperatur vinning ofter a finning	I A P	3 A1 A2 A3 A4 A5 P1 P2	- - 65 40 5 - - - - - - 30 3 3	- - 65 40 5 - - - - - - 30 3	- - 65 40 5 - - - - - 30 33	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - 30 - 31	- 65 40 5 - - - 30 31	- 65 40 5 - - - 30 31	- - - - - - - - - - - - - - - - - - -	- - 65 40 5 - - - - - - 30 3	- - - - - - - - - - - - - - - - - - -	- 65 40 5 - - - 30 3	- - 65 40 5 - - - - 30 33	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -
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Valge trainer visit i dirplay Mulige valge of false still visioning i dirplays Alarm & præsentation Alarm hotstillinger Konderstarn svor visioning alarm kand (cobirur) Konderstarn svor visioning alarm kuk (cobirur) Genindtradelse tiden far alvutisk alarm (min.) Alarm historikan-Vaff-O Valge fraiser til alarmzystems Hulige valge af falser til alarmzystem Prassentation af temperatur Fryzning af temperatur visioning ofter afrimning Fryzning af temperatur visioning ofter afrimning Fryzning af temperatur visioning under normal drift Opdateringerfastevan i dialpsays (cob.) Temperatur angivelse i Ockirur eller Fahrenheit	I A P	A1 A2 A3 A4 A5 P1 P2 P3 P4	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -
Vatetter visi tärplay Hulias vatet frähes til visinig i äliplay Alarm & præsentation Alarm indstillinger Kindavstar varvögning alarm tunk (cabriw) Kindavstar varvögning alarm tuluk (cabriw) Kindavstar varvögning alarm tuluk (cabriw) Genindtradstar tildarfra skurtiri alarm (nin.) Alarm hivatinkan-traft-0 Valg of falser til alarmzystem Prasentation al temperatur Fryzning temperatur visning ofter afrimning Fryzning temperatur visning under normal drift Opdateringerfrakvor i displayse (tak.) Temperatur angivelse lösthir alarmzite System opsætning	I A P	3 A1 A2 A3 A4 A5 P1 P2 P3 P4	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -
Vater ter visi tärplay Hulia valta of false till värinä jä därplay Alarm & præsentation Alarm indstillinger Kandavatar avarvägning alarmand (sebriur) Kandavatar avarvägning alarmatuk (sebriur) Gonindtradelsen tildafar akurtik alarm (min.) Alarm histrikken Valfa ¹ . Valg of false till alarmsystemet Hulia valg af false skil alarmsystemet Hulia valg af false skil alarmsystemet Hulia valg af kangerskur väring alfer affanning Frysning af kangerskur väring avder armmal ärit Opdateringerskur väring avder armstal ärit Opdateringerskur väring avder armstal ärit Opdateringerskur väring avder armstal ärit Stestem opsætning Kompressor indstillinger	I A P I C	S A1 A2 A3 A4 A5 P1 P2 P3 P4	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	65 40 5 - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -
Vatetter visit direlay Vatetter visit direlay Huliag valet frieter til visinig i direlay Alarm & præsentation Alarm indstillinger Kandavstar avorskgning alarm tand (sekriw) Kandavstar avorskgning alarm tand (sekriw) Genindtra delayet tiden för alavnikk (sekriw) Genindtra delayet tiden för alavnikk (sekriw) Genindtra delayet tiden för alavnikk (sekriw) Marm historikan-Haff-0 Valg of false til alarmzystom Prasentation af temperatur Frysning i temperatur vising effer as förinning Kontenses ori. Globysky (cels) Tamperatur angivelre i Gelsvir aller Fahrenheik Stetem opsætning Bifferentiels för kompresenretarte syrtep (kelvin)	I A P I C	S A1 A2 A3 A4 A5 P1 P2 P3 P4 C1 C2	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 65 40 5 - - - 30 3 10 C	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -
Vatetter viet i die lags Vatetter viet i die play Alarm & præsentation Alarm indstillinger Kandavstar sovrögning alarmatuk (sekriw) Kandavstar sovrögning alarmatuk (sekriw) Kandavstar sovrögning alarmatuk (sekriw) Ganindera advært die nären skurtik i alarm (nin.) Alarm hitarik insIrafr-0 Valg af false til alarmaystom Præsentation af temperatur Prysning af kamperatur vinning after afrimning Fryning af kamperatur vinning under narmal ärit Opdateringerfraksvari die playsok (sek.) Temperatur angivelse i Östlørn ag steg Kompressor indstillinger Kompressor indstillinger Kompressor indstillinger Kompressor indstillinger	I A P	S A1 A2 A3 A4 A5 P1 P2 P3 P4 C1 C2 C2	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -
Vater terv visi fairplay Maliae vale of faire visi fairplay Alarm & præsentation Alarm indstillinger Kanderstar avervågning alarmand (sebriar) Kanderstar avervågning alarmand (sebriar) Gonindtrædelser tiden far skurtik slærm (min.) Alarm histniken vifafr. Valg of faler til alarmsystemet Holige valg af faler skil alarmsystemet Serstem opsækning Kompressor indstillinger Differentiale far kamperarerstre skil gelvin) Hinimum illedet indstilliger setspunkt (sebriar)		S A1 A2 A3 A4 A5 P1 P2 P3 P4 C1 C2 C3 C4	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -
Vatetter visit direlay Vatetter visit direlay Huliay valet friese til visinig i direlay Alarm & præsentation Alarm indstillinger Kandovstar varorikgning alarm tank (celriur) Kandovstar varorikgning alarm tank (celriur) Gesindtra delse tidse for alavnitik (celriur) Gesindtra delse tidse for alavnitik (celriur) Valg of false til alarmzystem Prasentation af temperatur Fryzning at kamperatur vising else af sfinning Fryzning at kamperatur vising else poster affinity Oddetsringfrekoman i dirplayst (sek) Differentiale for kamperaturatur) Huliag valg af for and store arguments Kampressor indistillinger Differentiale for kamperaturatur else poster unkt (celriur) Huliarum uit delse dird tille for attemperature vising Automotive visit of store visit (celriur) Huliarum visit delse dird visit (celriur)		S A1 A2 A3 A4 A5 P1 P2 P3 P4 C1 C2 C3 C4 C5	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -
Vatet terv visi fairplay Vatet terv visi fairplay Malay watet fairbes til visining i diaplay Alarm & præsentation Alarm indstillinger Kondorstar sovrögging alarmatuk (cabriw) Kandorstar sovrögging alarmatuk (cabriw) Kandorstar sovrögging alarmatuk (cabriw) Valg affaret i il alarmystem Prassentation af temperatur Prysning 4 somperatur visining often affining Frysning 4 somperatur visining often affinit Opdateringfrakousei diaplayse (cak) Temperatur angivelse i Gabriw aller fabronheit System opsætning Kompressor indstillinger tervenkt (cabriw) Malay tille te in dettillinger strenkt (cabriw) Malay tille terve ind trille sorstpunkt (cabriw) Malay tille terve ind terve avarvigating Tourgan kompresser sorstpunkt (cabriw)		S A1 A2 A3 A4 A5 P1 P2 P3 P4 C1 C2 C3 C4 C5 C6	- - - 40 5 - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - -	- - - - - - - - - - - - - -	- - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - 5 - - 5 - - 5 - - 5 -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - 40 5 - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -
Vater terv visi fairplay Multipe vale of the vision of display Alarm & præsentation Alarm indstillinger Kanderstar avervågning alarmand (sebriar) Kanderstar avervågning alarmand (sebriar) Gonindtrædelser tiden far skurtik slærm (min.) Alarm hivatikken inføri-0 Valg of faler til alarmsystemet Hulige valg af falere kil alarmsystemet Præsentation af kemperatur Præsentation af kemperatur Præsentation af kemperatur Præsentation af kemperatur State i i den i den averken al dirkt Opdatering frakevens i displayse (sek.) Tamserstar nejvelse i Gebrar aller Fahrenheit Stetem Opsætning Kompressor indstillinger stynekt (selvin) Minimun illeden indstillingerstynekt (selvin) Multipe i kannerstrar urvinger og Auforfaler til kannerstrar urvinger (selvin) Makat illeden indstillinger stynekt (selvin) Makatifaler til kannerstrar urvinger vervinging Td dærenskrifter og kanner avervinging Tid dærenskrifter og kanner avervinging		S 1 A1 A2 A3 A4 A5 P1 P2 P3 P4 C1 C2 C3 C4 C5 C6 C7	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 65 40 5 - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 65 40 5 - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -
Vatetter visi fairplay Haliago valget fairbes til visiniget fairplay Alarm & præsentation Alarm indstillinger Knadovstar verskeping alarm tunk (sekrive) Knadovstar verskeping alarm tunk (sekrive) Gesinder adsvært den far skourtikk alarm (min.) Alarm histerikan-Maff-0 Valget fairet til alarmzystem Præsentation af Kemperatur Fryning at knaperatur visinget for affinning Fryning at knaperatur visinget for affinning Fryning at knaperatur visinget of affinninget of affinninge		S 1 A1 A2 A3 A4 A5 P1 P2 P3 P4 C1 C2 C3 C4 C5 C6 C7 C8	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -
Vatet terv visi fairplay Vatet terv visi fairplay Malais valet of faires til visinig i display Alarm & præsentation Alarm indstillinger Kondorstar svorskepins galarmank (celviv) Kondorstar svorskepins galarmank (celviv) Kondorstar svorskepins galarmank (celviv) Gonindra dokan i fair-0 Valet of faires til alarmaystem Prassentation af temperatur Prysing af semperatur visining offer a finning Fryning af semperatur visining offer a finning Fryning af semperatur visining under normal dritt Ogdatoringerskovani displayse (celv) Temperatur angivelse i deslim galarmatik Sestem opsætning Kompressor indstillinger Minimum till des in drittlige arstronkt (celviv) Mida tille des indstillinger storket (celviv) Minimum till des in drittlige arstronkt (celviv) Set differential des fark magnetizer arstronkt (celviv) Set differential des fark magnetizer arxives (celviv) Set differential des fark magnetizer arxives (celviv) Set differential des fark magnetizer arxives (celviv)		S A1 A2 A3 A4 P1 P2 P3 P4 C1 C2 C3 C4 C5 C6 C7 C8 C9	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - 5 - - 5 - - 5 - 5 - - 5 - 5 5 5 5 5
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Changing door hinge side.

The door can be changed from left hand-hinged to right hand hinged or vice versa.

Example: Changing from right hand to left hand hinged door.



Disconnect the cabinet from mains power !



















Gram













Plug connections onboard the controller

The description here below explains the plugs or terminals to each special function and relay.



Plug	Electrical component	Description
1	230 Volt relay – K1	The relay supplies the compressor and the condenser fan with
2	-	power.
3	-	
4		
5	230 Volt relay – K3	The relay supplies the evaporator fan with power.
6		
7	230 Volt relay – K2	The relay supplies the defrosting heating element and the drip
8		water heating element with power
14		
15		
9	230 Volt relay – K4	The relay supplies the halogen light transformer with power (230V/12V).
10	230 Volt relay – K7 and K8	The relay supplies the front frame heater, re-evaporating
11		heating element, and the condensing pump with power. When
12	-	the cabinet is switched on, the power is constantly viable.
13	_	
17		
18	Plug connection for the safety thermostat	The plug is connected in series with the defrosting heating element.
19	230 Volt relay – K5	The potential free alarm relay. The relay changes position when the cabinet switches the power on. By alarms and by power failure the relay switches back to normal position.
16	230 Volt input	These terminals are the power input connection with 230 V to the controller.
76504	1642	28



20 21	Digital input from the door contact	When these terminals are not in use, the controller lets the evaporator fans keep running. By shortcutting the terminals, the fan stops.
	De ense en ser in met	
А	Room sensor input	NIC sensor
В	Evaporator sensor input	NTC sensor
С	Condenser sensor input 1	NTC sensor
D	Condenser sensor input 2	NTC sensor
E	Sensor input for a extra sensor	NTC sensor