



**MOD : TAB3/D-N2**

**Production code : DB301H-3**

**12/2023**



# BACKBAR COOLERS

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## 2.

### Thermostat technical manual

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# IMPORTANT SAFETY INSTRUCTIONS

Before you use your cooler please read this instruction manual carefully.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

The instructions concerning persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge and children playing with the appliance are not required.

Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

**WARNING:** Keep clear of obstruction all ventilation openings in the appliance enclosure or in the structure for building-in.

**WARNING:** Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.

**WARNING:** Do not damage the refrigerant circuit.

**WARNING:** Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.

The refrigerant is R600a/R290 and insulation blowing gases is cyclopentane, servicing and disposal of appliance should be done by qualified person.

## Appliance information

Climatic class: 4, the user should use the appliance below 32 °C.

The A-weighted emission sound pressure level is below 70 dB(A).

The max load for each shelf is no greater than 230kg/m<sup>2</sup>.



This Symbol means risk of fire and flammable materials used in appliance.

# UNPACKING AND INSTALLATION

Remove the wooden pallet and the packing. External surfaces are supplied with a protection foil, which must be removed before installation.

# ELECTRICAL CONNECTION

The cabinet operates on 220-240 V/50 Hz.

The wall socket should be easily accessible.

All earthing requirements stipulated by the local electricity authorities must be observed. The cabinet plug and wall socket should then give correct earthing. If in doubt, contact your local supplier or authorized electrician.

The main electrical connections must be done by skilled electricians.

## START-UP OF THE CABINET

Before use, we recommend that the cabinet is cleaned, see the section on maintenance and cleaning.

### **Important !**

If the cabinet has been horizontally placed during transport, please wait 2 hours before starting up the cabinet.

# THERMOSTAT

The thermostat and the light switch is placed in the bottom panel.



The thermostat has been pre-set and in most cases it is not necessary to adjust the settings. When turning on the cabinet the display will show the current temperature in the cabinet.

## Display set temperature:

**SET** Press this key and the display will show the set temperature. Press the key again to return to normal reading

## Set new temperature:

**SET** Press this key continuously for more than 3 seconds and the display shows the set temperature.



Press this key to increase the set temperature.



Press this key to lower the set temperature.

**SET** Press this key to save the new settings. The display will flash with the new value and will then return to normal reading.

## Keyboard lock/unlock:



Press these keys simultaneously for 3 seconds. To lock the display reads 'oF'. To unlock the display reads 'on'.

## Alarm codes:

'P1' Flashing in the display: indicates that the cabinet sensor is defective. The cabinet will strive to keep the set temperature until it has been repaired.

# DEFROSTING

The cabinet defrosts automatically with pre-set intervals. If the door to the cabinet is opened or the contents of the cabinet is changed frequently it may become necessary to defrost the cabinet manually.



Pressing this key continuously for more than 3 seconds will start a manual defrosting and then return to normal operation.

Defrosted water runs to a container placed in the compressor compartment and evaporates.

# MOVING THE SHELVES

The shelf guides is moved by squeezing them together and lifting them upwards at the same time. Check that all 4 shelf guides are placed in the same height before placing the shelf in the cabinet.

## DOOR REVERSAL

### Single door cabinets only !

Remove the 3 screws in the bottom hinge and let the door slide out of the top hinge. Move the top hinge to the opposite side and remount the door and bottom hinge.

## CLEANING AND MAINTENANCE

Switch off the electrical connection at the socket.

The cabinet must be periodically cleaned. Clean the external and internal surfaces of the cabinet with a light soap solution and subsequently wipe dry.

Do not spray the appliance with direct jets of water or using high pressure appliances.

Do NOT use cleansers containing chlorine or other harsh cleansers, as these can damage the surfaces and the internal cooling system.

Clean the condenser and the compressor compartment using a vacuum cleaner and a stiff brush.

## SERVICE

The cooling system is a hermetically sealed system and does not require supervision, only cleaning.

If the cabinet fails to cool, check if the reason is a power cut.

If you cannot locate the reason to the failure of the cabinet, please contact your supplier. Please inform model and serial number of the cabinet. You can find this information on the rating label which is placed inside the cabinet in the top right hand side.

## DISPOSAL

Disposal of the cabinet must take place in an environmentally correct way. Please note existing regulation on disposal. There may be special requirements and conditions which must be observed.





# DT-01 TECHNICAL MANUAL



## Set point (SP):

Check the set point: Push and immediately release the SET key, the set point will be showed, no LED blinking. It will return to normal temperature display after 5s without pressing a key.

Change the set point: Push the SET key for 2s to change the set point value. The value of the set point will be displayed and the “°C” or “°F” LED starts blinking (0.5s on and 0.5s off). Push the “v” or “^” within 10s to change the set value. The set point value is stored immediately. It will return to normal temperature display after 10s without pressing a key.

## Changing parameters:

Enter the programming mode by pressing the SET+ “v” keys for 3s, the “°C” or “°F” LED starts blinking (0.5s on and 0.5s off). Select the required parameter by pressing the “v” or “^”, press the “SET” key to display its value, then use “v” or “^” to change its value. Press SET again, the new parameter value and the “°C” or “°F” LED starts blinking(0.5s on and 0.5s off) and lasts 2s, the new value is stored and move to the following parameter.



Another way to store the set value: The set value is stored immediately after setting. It will return to normal temperature display after 10s without pressing a key and exit the programming mode at the same time.

## Lock/unlock the keyboard:

Keep pressed for more than 3s the “v” and “^”, the “oF” message will be displayed and start blinking (0.5s on and 0.5s off), It will return to normal temperature display after 3s without pressing a key. And the keyboard is locked.

Keep pressed for more than 3s the “v” and “^”, the “on” message will be displayed and start blinking (0.5s on and 0.5s off), It will return to normal temperature display after 3s without pressing a key. And the keyboard is unlocked.

## Manual defrost:

Push the  key for 2s to start a manual defrost, the LED  will be always on until end of defrost.

## Alarm codes:

- ‘P1’ Room probe failure, compressor output according to ‘Cy’ and ‘Cn’.
- ‘HA’ Maximum temperature alarm, compressor outputs unchanged.
- ‘LA’ Minimum temperature alarm, compressor outputs unchanged.

# DT-01 PARAMETER LIST

No.			Description	Range	Default	Remarks
1	SP	Set point	Cut-out temperature	"-55~99°C / -67~99 °F"	4	
2	dF	Differential	Intervention differential for set point. When the temperature $\geq$ SP+dF, compressor Cut IN , when the temperature $\leq$ SP, compressor Cut OUT.	"0.1~25°C / 1~45°F"	3	
3	LL	Minimum set point	Set the minimum value for the set point.	"-55°C~SP / -67°F~SP"	0	
4	UL	Maximum set point	Set the maximum value for set point.	"SP~99°C / SP~99°F"	8	
5	CA	Probe calibration	Allow to adjust possible offset	"-10~10°C / -17~17 °F"	3,5	
6	d1	Outputs activation delay at start up	This function is enabled at the initial start up of the instrument and inhibits any output activation for the period of time set in the parameter.	0~99min	0	
7	d2	Anti-short cycle delay	Minimum interval between the compressor stop and the following restart.	0~50min	5	
8	Cy	Compressor ON time with faulty probe	Time during which the compressor is active in case of faulty thermostat probe.	0~99min	20	
9	Cn	Compressor OFF time with faulty probe	Time during which the compressor is OFF in case of faulty thermostat probe.	0~99min	20	
10	CF	Measurement unit	°C =Celsius; °F =Fahrenheit. WARNING: When the measurement unit is changed the set point SP and the values of the parameters dF. LL. UL. AH. AL etc have to be checked and modified if necessary.	°C / °F	°C	
11	rE	Resolution	Only for °C, dE= decimal between -9.9 and 9.9°C; in= integer	dE / in	dE	
12	d3	Display delay	when the temperature increases, the display is updated of 1 °C/1°F after this time.	0~15min	5	
13	d4	Interval between defrost cycles	Determine the time interval between the beginning of two defrost cycles.	0~99hours	4	
14	d5	Maximum length for defrost	Set the maximum length for defrost,with 0 no defrost	0~99min	25	
15	dt	Display during defrost	rt= real temperature; it= start defrost temperature;SP= set point SP; dF= label dF.	rt / it / SP / dF	it	
16	AH	Maximum temperature alarm	When this temperature is reached, the alarm is enabled after the "A1" delay time.	"AL~99°C / AL~99 °F"	15	
17	AL	Minimum temperature alarm	When this temperature is reached, the alarm is enabled after the "A1" delay time.	"-55°C~AH / -67°F~AH"	-2	
18	A1	Temperature alarm delay	Time interval between the detection of an alarm condition and alarm signalling.	0~99min	10	
19	A2	Exclusion of temperature alarm at startup	Time interval between the detection of the temperature alarm condition after instrument power on and alarm signalling.	0~99min	99	

# DT-01 WIRING DIAGRAM

