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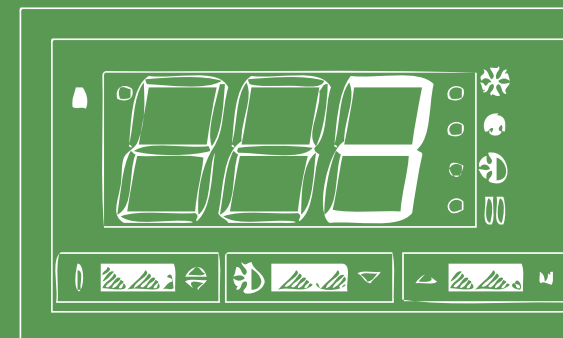
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UNIT OPERATING INSTRUCTIONS



UNIT OPERATING INSTRUCTIONS

Chiller, Freezer and Heat Cool Systems

IMPORTANT:

The mains cable must be isolated when plugging in to or unplugging from the unit.

Refrigeration Controller Operation

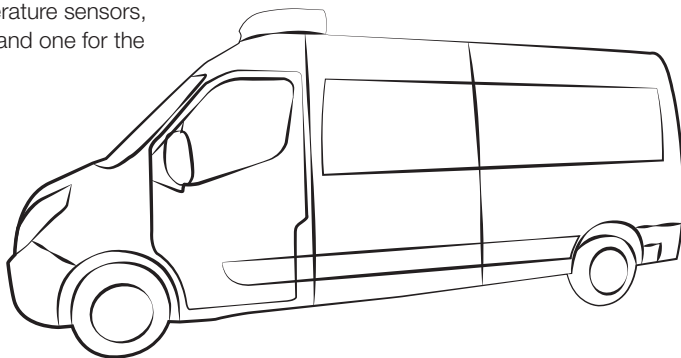
The end user can alter the set point of the GAH Controller over a pre-set range and initiate a manual defrost with the unit in normal operating mode.

The control parameters are pre-set at the factory to suit normal operation for chill, mid temp, freeze or heat/cool operation. They can only be altered by entering the programming mode and, as such, should only be altered by a competent and authorised service engineer in the event of extraordinary operation requirements or conditions.

The controller has two temperature sensors, one for the box temperature and one for the Evaporator coil temperature.

The controller also has an internal timer that operates whilst the unit is switched on providing timing for defrosts and it has an internal memory to store all of the factory defined and user defined parameters.

In normal use the display will show the internal loadspace temperature. There are also indicator lights to advise when the compressor is running, when the fans are running and when the defrost is in operation.



YOUR REFRIGERATION SYSTEM SERVICE RECORD

Vehicle Registration:

Unit Serial Number:

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SERVICING OPTIONS

What sets GAH apart from other transport refrigeration service operations? We care! Don't take our word for it, ask our customers. We have a range of maintenance options, which have been designed to suit the diversity of our customers' applications, but all aim to provide the reassurance you need and help to control the budget. In most cases, GAH recommend that units are serviced twice per year, however the frequency can be adjusted depending on usage. So you have one less thing to worry about, GAH will contact you when a service is due. These service packages can be tailored to your specific requirements as appropriate. Please give us a call on 01394 421140 to discuss.

SERVICE PLAN 1

Complete Service Cover 24 hours per day, 365 days per year

The monthly charge covers parts, labour, travel and all servicing work carried out between 08:00 to 18:00 hours Monday to Friday, excluding Bank holidays plus a 24-hours per day, 365 days per year breakdown cover for the duration of the contract (minimum three years, maximum five).

SERVICE PLAN 2

Full Service Cover

The monthly charge covers parts, labour, travel, all breakdown and all servicing work carried out between 08:00 to 18:00 hours Monday to Friday, excluding Bank holidays, for the duration of the contract (minimum two years maximum five years)

SERVICE PLAN 3

Service only

The monthly charge covers service and travel to & from site only. Discount on GAH parts 20%.

WARRANTY ONLY

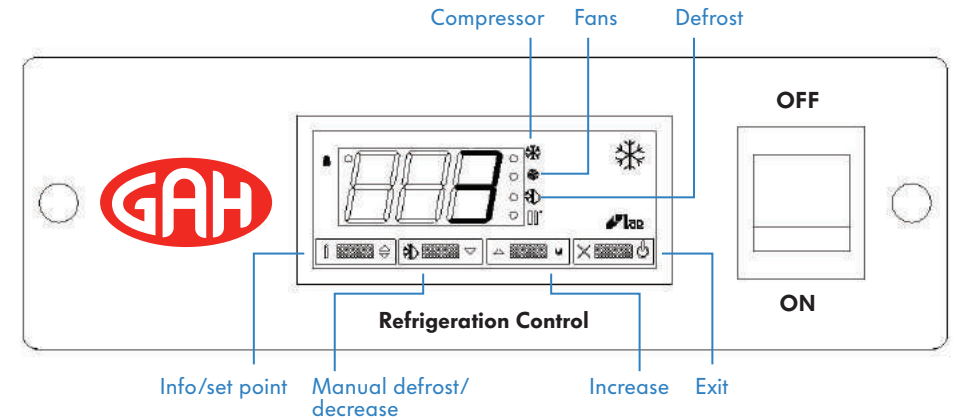
Full Service Cover

We strongly recommend that servicing options be taken up with GAH. However, if you do not wish for your refrigeration unit to be serviced, the unit has four months warranty whereby all the parts, labour and travelling is covered and a further eight months warranty for manufacturing defects only.

PAY AS YOU GO

1 Year Warranty

GAH warrant their refrigeration systems free from defects in material or workmanship under the conditional warranty of one year which includes parts, travelling and labour, provided the refrigeration system has been serviced by GAH or an Approved Service Repairer (ASR). A minimum of two services per year is required on units, the 1st service due 4 months from the date of commissioning. Failure to demonstrate that the refrigeration system has been serviced in accordance with the GAH Limited Service Schedule will result in the warranty being terminated. Copies of service sheets may be required. Warranty work will be carried out in normal working hours (08:00 to 18:00 hours Monday to Friday excluding Bank holidays). Work carried out at other times will be charged at the prevailing rate. A 10% discount is available on GAH parts.



To Start the Unit

Start the vehicle engine and push the unit switch to the ON position. For units running on mains electric standby plug the unit into the mains supply and then push the unit switch to the ON position.

To Stop the Unit

To stop the unit from operating push the unit switch to the OFF position. For units running on mains electric standby always push the unit switch to the OFF position before disconnecting the mains supply.

Note: If you will be making deliveries continuously throughout the day leave the unit switched on.

To Change the Thermostat Settings

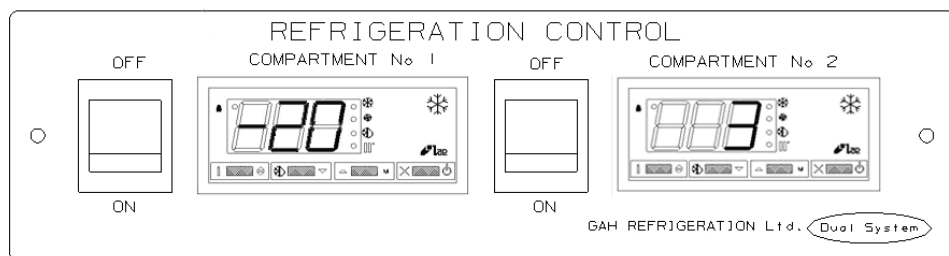
Press and HOLD the Info/Set Point button for at least 1/2 a second and the current temperature set point will be displayed. With the Info/Set Point button still depressed raise or lower the setting by pressing the increase or decrease buttons. By releasing the Info/Set Point button you will automatically store the setting.

Note: The thermostat setting will only change within the limits in which the unit was designed to operate.

To Defrost the Unit

Defrosting is an automatic function built into the control system. The unit will defrost 30 minutes after being switched on and every hour thereafter. A manual defrost can be initiated by pressing and HOLDING the Manual Defrost/Decrease button for 2 seconds.

Dual Systems and Flexi-temp



To Start the Unit

Start the vehicle engine and push the unit switch's to the ON position. For units running on mains electric standby plug the unit into the mains supply and then push the unit switch's to the ON position.

To Stop the Unit

To stop the unit from operating push the unit switch's to the OFF position. For units running on mains electric standby always push the unit switch's to the OFF position before disconnecting the mains supply.

Note: If you make deliveries continuously throughout the day, leave the unit switch on.

To Change the Thermostat Settings in either compartment

Press and HOLD the Info and Set button for at least ½ a second and the current temperature set point will be displayed. With the Info and Set buttons still depressed raise or lower the setting by pressing the increase or decrease buttons. By releasing the Info and Set button you will automatically store the setting.

Note: The thermostat setting will only change within the limits in which the unit was designed to operate.

To Defrost the Unit

Defrosting is an automatic function built into the control system. The unit will defrost 30 minutes after being switched on and every hour thereafter. A manual defrost can be initiated by pressing and HOLDING the Manual Defrost and Decrease button for 2 seconds.

SERVICE AND WARRANTY

Have your unit maintained by the experts that built it



Check

Run the unit for 30mins to allow system to establish its cooling cycle. The Cooling Light and Evaporator Fan Light should be illuminated.

- 1 Note the box temperature then press the "Set" button 3 times, to display the coil temperature. This should be several degrees LOWER than the noted box temperature. If this is the case, then the unit is cooling. Please also check the following:
- 2 With the cooling light "On" make sure the Condenser Fan (outside) can be heard or seen running and a make visual check of the compressor to ensure it is turning.
- 3 With the Evaporator Light "On" make sure the Evaporator Fan (inside) can be heard or seen running and a make a visual check of the Evaporator coil to make sure it is not covered in ice.

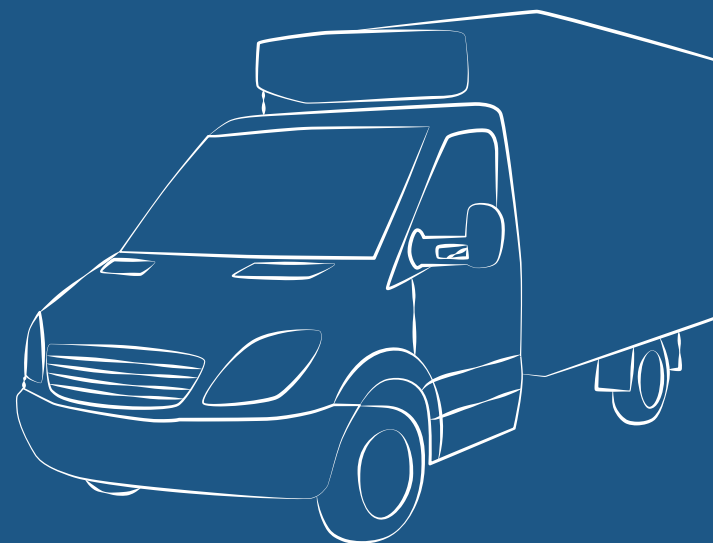
Solutions

- 1 If the Evaporator coil is covered in ice, press and hold the Defrost button to activate a manual defrost. The Defrost Light will come on, DEF is displayed and the Evaporator Fan Light will go out. REC will then be displayed. Once the defrost is complete, restart the check list.
- 2 If the Cooling Light is illuminated, but the Condenser Fan is not running or the compressor is not turning, call for assistance.
- 3 If the Evaporator Fan Light is illuminated, but the Evaporator Fan is not running, call for assistance.
- 4 If everything appears to be working but there is no difference between the displayed box temperature and the coil temperature (as carried out in check list number 1), call for assistance.

Before calling out an engineer, please check the following (where safe to do so)

- Is the mains supply working?
- Is the unit switched on?
- Is the temperature set point correct?
- Does the unit need to be defrosted?

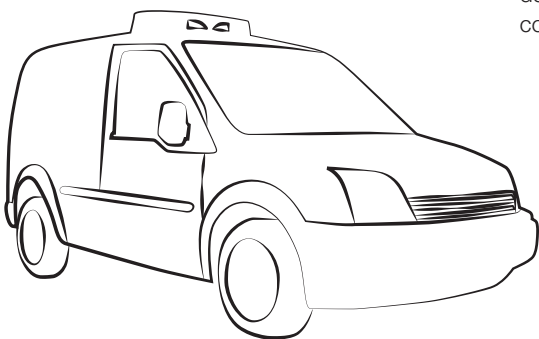
HEALTH AND SAFETY



HEALTH, SAFETY AND GETTING THE BEST FROM YOUR GAH SYSTEM

System operation

- Ensure that the thermostats are set to the correct temperature.
- Pre cool the refrigerated compartment prior to use.
- Ensure the product is loaded at the correct temperature (the refrigeration system is designed to maintain the loaded temperature).
- Do not run the unit on engine or standby whilst loading the refrigerated compartment.
- Keep the duration of the door opening times to a minimum.
- Do not restrict the air circulation around the loadspace evaporator.
- Do not restrict the air circulation around the load.
- Keep strip curtains (if fitted) in their correct position.
- Park on a level piece of ground.



Routine checks and recommendations

- Make sure the condenser and evaporator fan blades are not obstructed.
- Make sure the drive belt(s) are in good condition free from damage or sign of wearing, chaffing, and the adjustment is correct. (Please note that it is the customers responsibility to regularly inspect the drive belt(s).
- Road compressor drive belts should be changed every 25,000 miles.
- Carry out a manual defrost during the last return journey of each day.
- It is recommended that a spare drive belt should be carried as it may differ to the original vehicle drive belt.
- GAH refrigeration units should not be run in confined areas where the ambient temperature can exceed 40°C as this would exceed the design criteria of certain components and could cause serious damage to the unit.

Safety advice and important information

- Please check that no personnel are locked into the loadspace at any time.
- Please ensure that the internal lighting system is operative.
- Please be aware that there will be water under the vehicle after the unit defrosts. When the ambient temperature is below 0°C, this could freeze so caution is advised when walking near the vehicle and consideration should be given when parking near pedestrian areas.
- Periodical maintenance is required on GAH Refrigeration systems (please see the Service Options sheet).
- Maintenance should only be carried out on your GAH system by a competent and suitably qualified refrigeration engineer.
- Refrigerant gas and oil should only ever be handled, collected or disposed of by a suitably qualified refrigeration engineer.
- A schematic wiring diagram and refrigeration circuit diagram are provided when the unit is installed and copies can be obtained by calling GAH and quoting the unit serial number.
- Do not wash or clean any part of the system whilst the unit is running.

Safe working practice

- Do not use leads that are in a poor condition i.e. showing exposed wires, or that have damaged plugs or sockets.
- A PAT tested (portable appliance test) lead should be used (available from GAH). (This is the responsibility of the operator)
- Do not use leads that are not protected by an Earth Leakage Circuit Breaker (ELCB) or a Residual Circuit Detector (RCD).
- Turn the system off and disconnect from the mains supply before attempting to re-set any safety devices.
- Do not plug a lead that is switched on into the refrigeration system, it will cause damage.
- GAH recommend that the standby lead should be a maximum of 8 meters in length, have cables with a CSA of 2.5mm and has a steel braided sheath for protection (please consult a qualified electrician for clarification).
- Do not operate the unit without the covers in place.
- 16 amp supply.

REMEMBER:

Before you re-set any of the safety systems, please make sure the unit is switched OFF.